

# KOMATSU®

# PC290LC-10

Tier 4 Interim Engine

PC290LC

**NET HORSEPOWER**

196 HP @ 2050 rpm  
147 kW @ 2050 rpm

**OPERATING WEIGHT**

67,396–68,654 lb  
30570–31141 kg

**BUCKET CAPACITY**

0.76–2.13 yd<sup>3</sup>  
0.58–1.63 m<sup>3</sup>



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

PC290LC

# WALK-AROUND

PC290LC-G-10



Photos may include optional equipment

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## INCREASED REACH & LOW FUEL CONSUMPTION

**A new boom and arm design** increases the working range of the machine for more digging reach.

**New engine and hydraulic pump control technology** improves operational efficiency and lowers fuel consumption.

**A powerful Komatsu SAA6D107E-2 engine** provides a net output of 147 kW **196 HP**. This engine is EPA Tier 4 Interim and EU stage 3B emissions certified.

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

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

**Large displacement high efficiency pumps** provide higher flow output and efficient operation.

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

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

### Large LCD color monitor panel:

- 7" high resolution screen
- Provides "Eco-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.

### Enhanced working environment

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

### Komatsu designed and manufactured components



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

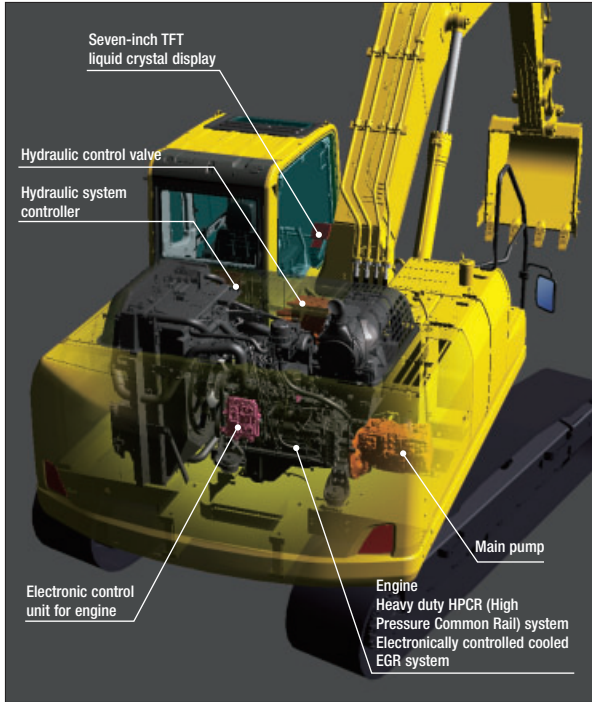
**Swing out cooler design** provides easy access to service and clean the cooler assembly.

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

**Robust undercarriage** design uses many of the same components that are used on larger machines.

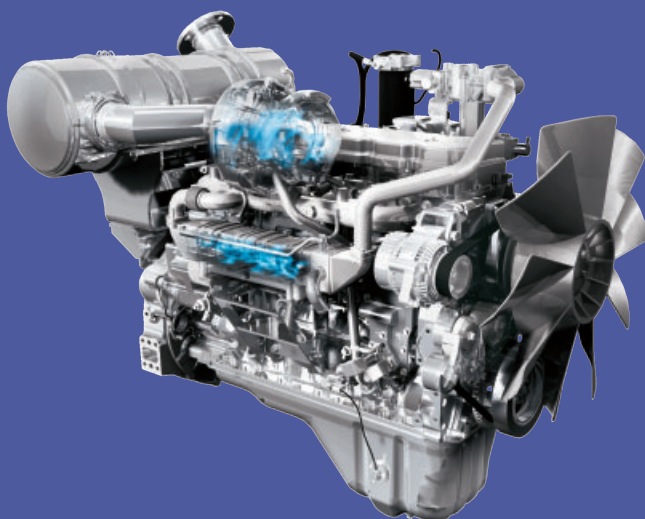
## KOMTRAX®

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



**Advanced Electronic Control System**

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



**Environment-Friendly Engine**

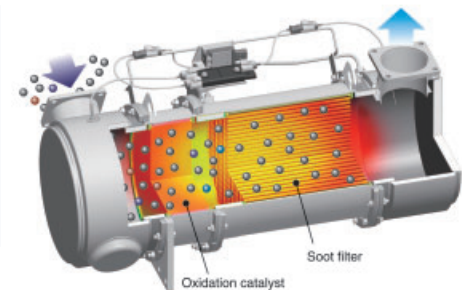
The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more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

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

**Komatsu Diesel Particulate Filter (KDPF)**

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

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



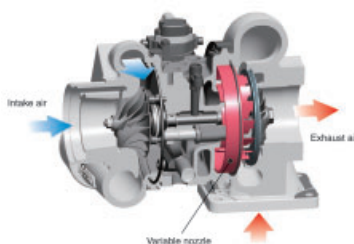
**Closed Crankcase Ventilation (CCV)**

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



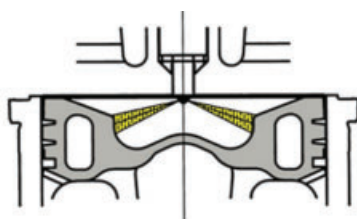
## Komatsu Variable Geometry Turbocharger (KVG T)

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



## Redesigned Combustion Chamber

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

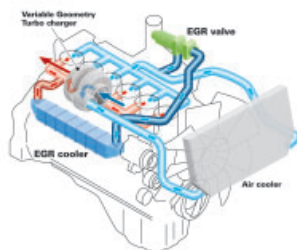


## Low Operational Noise

The PC290LC-10 provides low noise operation using a low noise engine and methods that reduce noise at the source such as sound absorbing materials.

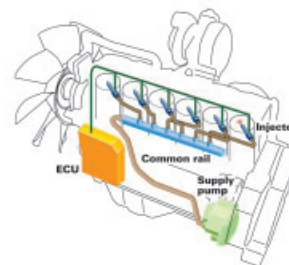
## Cooled Exhaust Gas Recirculation (EGR)

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



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

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



## Large Digging Force

The PC290LC-10 is equipped with the Power Max system. This function temporarily increases digging force for 8.5 seconds of operation.

### Maximum arm crowd force (ISO):

132 kN (13.4 t) ➔ **141 kN (14.4 t)** **7 % UP**  
(with Power Max.)

### Maximum bucket digging force (ISO):

184 kN (18.8 t) ➔ **198 kN (20.2 t)** **8 % UP**  
(with Power Max.)

\* Measured with Power Max function, 3200 mm arm and ISO rating



### Efficient Hydraulic System

The PC290LC-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator's demands.

The PC290LC-10 also introduces new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

**Reduced Up To 10% Fuel consumption**

vs PC270LC-8  
Based on typical work pattern collected via KOMTRAX

### Large Displacement High Efficiency Pump

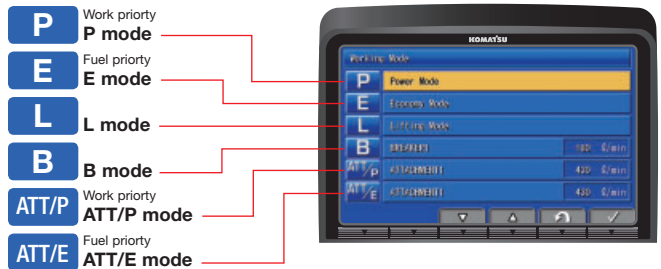
Pump displacement has been increased, providing increased flow output as well as operation at the most efficient engine speed.



### Working Mode Selection

The PC290LC-10 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC290LC-10 features a new mode (ATT/E) which allows operators to run attachments while in Economy mode.

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



### New Work Equipment Design

A new reach boom and arm design provides between one and two feet of additional digging reach.

### Eco-Gauge Assists with Energy Saving Operations

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



Fuel consumption gauge Eco-gauge

### Idling Caution

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



## RELIABILITY FEATURES

### High Rigidity Work Equipment

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



### Komatsu Designed Components

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



### High Efficiency Fuel Filter

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



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

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



### O-Ring Face Seals

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



### Durable Frame Structure

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

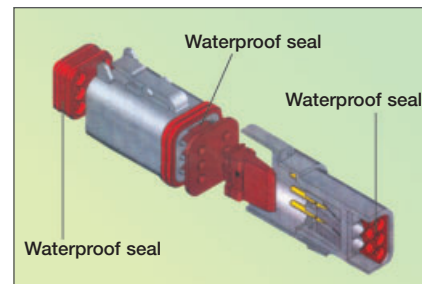
### Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

- Controllers
- Sensors
- Connectors
- Heat Resistant Wiring

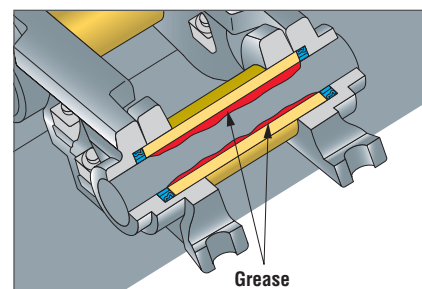
### DT-type Connectors

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



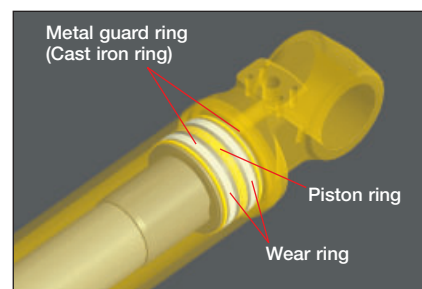
### Grease Sealed Track

The PC290LC-10 uses grease sealed tracks for extended undercarriage life.



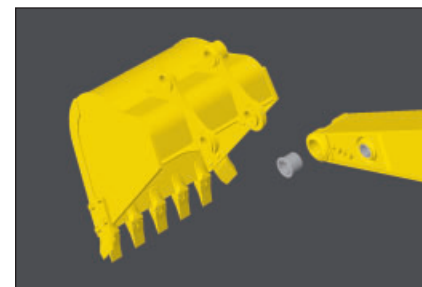
### Metal Guard Rings

The PC290LC-10 uses metal guard rings to protect all of the hydraulic cylinders and improve long term reliability.



### Durable Arm Tip Bushing

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



### Robust Undercarriage Design

The PC290LC-10 has a robust undercarriage design using many of the same components that are used on larger machines, such as the links, shoes, rollers, and idlers.





### Newly Designed Wide Spacious Cab

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

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

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

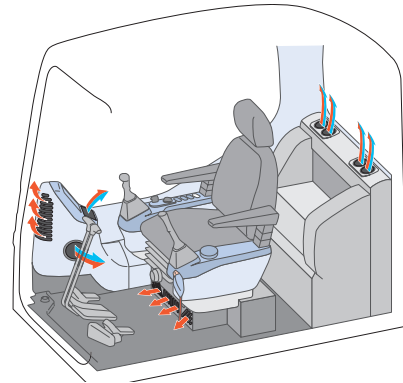


### Low Cab Noise

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

### Automatic Air Conditioner

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

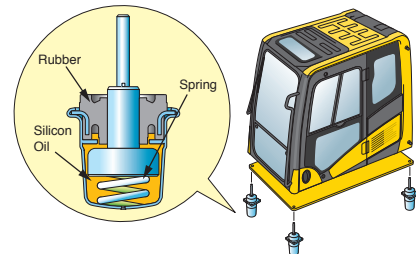


### Pressurized Cab

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

### Low Vibration with Viscous Cab Mounts

The PC290LC-10 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator's seat.



### Auxiliary Input (MP3 Jack)

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







## Large High Resolution LCD Monitor Panel

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

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

### Indicators

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

### Basic operation switches

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

Basic operation switches

Function switches

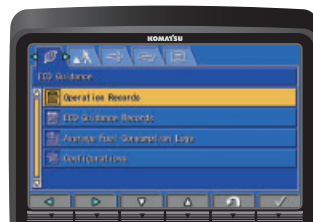
Air conditioner operation switches

## Operational "ECO" Guidance

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



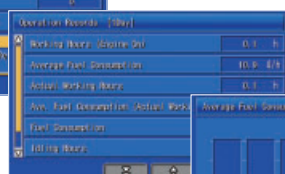
ECO Guidance



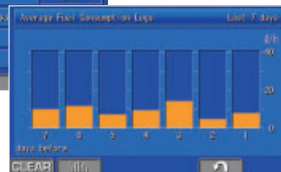
ECO Guidance menu



ECO Guidance Records



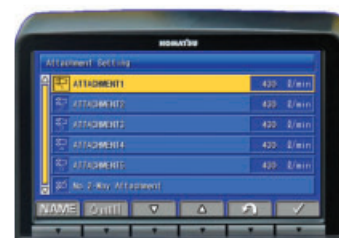
Operation Records



Average Fuel Consumption Logs

## Improved Attachment Control

The PC290LC-10 is capable of storing up to ten different attachments in the new monitor panel. The name of each attachment can be changed for better tool management. Hydraulic flow rates can be easily adjusted for one-way and two-way flow attachments.



Attachment Setting Screen



Attachment Flow Screen

### Easy Access Coolers

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



### Long Life Oils, Filters

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



Hydraulic oil filter  
(Eco-white element)

### KDPF Regeneration Notification

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

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



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

### Battery Disconnect Switch

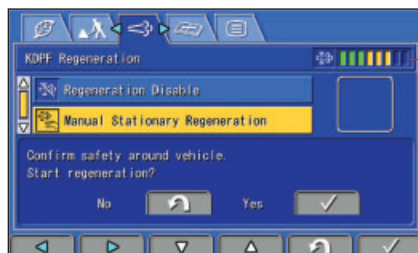
A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.



### Manual Stationary Regeneration

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

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



Soot level indicator



## Extended Work Equipment Greasing Intervals

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

## Equipped with Eco-drain Valve

Minimizes ground contamination due to oil leakage when replacing the engine oil.



## Equipment Management Monitoring System (EMMS)

The PC290LC-10 features an advanced diagnostic system that continuously monitors the machine's vital systems. EMMS tracks maintenance items, provides advanced troubleshooting tools, reduces diagnostic times, and displays error codes.

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

## Abnormalities Display with Code

When an abnormality occurs an error code is displayed on the monitor. When an important code is displayed, a caution lamp blinks and warning buzzer sounds to alert the operator to take action.

The monitor also stores a record of abnormalities for more effective troubleshooting.



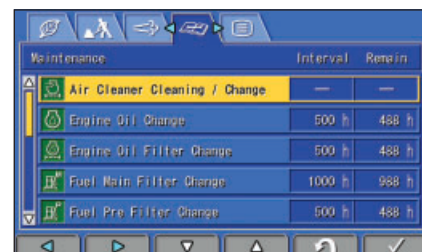
## Advanced Monitoring System

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



## Maintenance Tracking

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



### ROPS Cab Design

The PC290LC-10 is equipped with an integrated ROPS cab as standard equipment. The cab also meets OPG Top Guard Level 1 requirements.



### Guardrails

Guardrails have been added on the upper structure of the machine. This provides additional convenience during engine service.



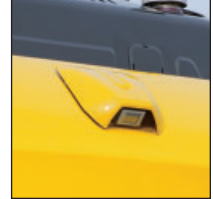
### Thermal and Fan Guards

Thermal and fan guards are placed around high temperature parts of the engine and fan drive.



### Rear-view Monitoring System (standard)

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



Rear view image on monitor

### Seat Belt Caution Indicator

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



### Lock Lever

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



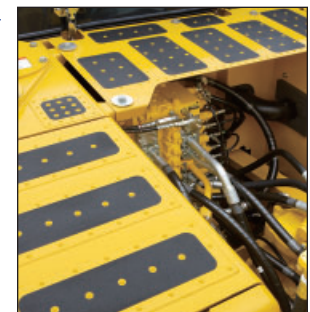
### Secondary Engine Shutdown Switch

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



### Slip Resistant Plates

Durable slip resistant plates maintain excellent foot traction



## KOMTRAX EQUIPMENT WORKING ENVIRONMENT MONITORING



**KOMTRAX is Komatsu's remote equipment monitoring and management system.** KOMTRAX gathers critical machine and operation information and provides it in a user-friendly format so that you can make well-informed decisions. KOMTRAX gives you more control of your equipment and better control of your business!

KOMTRAX comes standard on all new Komatsu machines with complimentary manufacturer communications services throughout the entire ownership period. It is a powerful tool and makes Komatsu machines an even better purchase!

### Fleet Optimization

KOMTRAX tells you how your machines and operators are performing. KOMTRAX provides:

- Fuel consumption data and trends, by unit or fleet
- Machine fuel level
- Machine utilization
- Actual working hours/Machine idle hours
- Attachment usage hours
- Machine travel hours
- Machine load analysis
- Operating mode ratios

### Location and Asset Management

KOMTRAX tells you where your machines are and can help prevent unauthorized use. KOMTRAX provides:

- GPS location/Operation maps
- Out-of-area and movement alert with location and time
- Engine, nighttime, and calendar lock

### Maintenance Management

KOMTRAX monitors the health of your machines and provides critical information so that you, and your distributor, can take proactive maintenance measures and reduce downtime. KOMTRAX provides:

- Service Meter Reading (SMR)
- Cautions/Abnormality codes
- Maintenance replacement notifications

### Easy and Flexible Access to Information

With KOMTRAX, information about your machines is available through a convenient, internet-based portal. KOMTRAX provides:

- A user-friendly KOMTRAX website with customized access to your machine information
- E-mail and text alerts
- Web dial-up service
- Monthly fleet summary reports

For more information, including terms and conditions of the manufacturer complimentary KOMTRAX communication service, ask your distributor, pick up a KOMTRAX brochure, or go to [www.komatsuamerica.com/komtrax](http://www.komatsuamerica.com/komtrax).

## KOMTRAX®

For construction and compact equipment.

## KOMTRAX Plus®

For production and mining class machines.

# KOMATSU PARTS & SERVICE SUPPORT



Komatsu is an industry leader in building reliable and technologically advanced machines. It is only fitting that we would provide superior Product Support. Komatsu and its distributors are focused on providing their customers unparalleled Product Support throughout the entire lifecycle of the machine. It's called Komatsu CARE.

## Komatsu CARE – Complimentary Scheduled Maintenance

Komatsu remains focused on lowering the customer's ownership costs by engineering machines with increased fuel efficiency and productivity. In addition, one Komatsu CARE program aimed at further reducing your owning and operating costs is Complimentary Scheduled Maintenance. Komatsu machine owners can now rely on their Komatsu Distributor to perform the preventative maintenance on their Komatsu Tier 4 machines.

- Complimentary scheduled maintenance for the earlier of 3 years or 2,000 hours is standard on all Komatsu Tier 4 construction machines and is available at all distributors in the U.S. and Canada.
- Service is performed by factory certified technicians using only Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high equipment uptime and reliability
- Increases resale value and provides detailed maintenance records

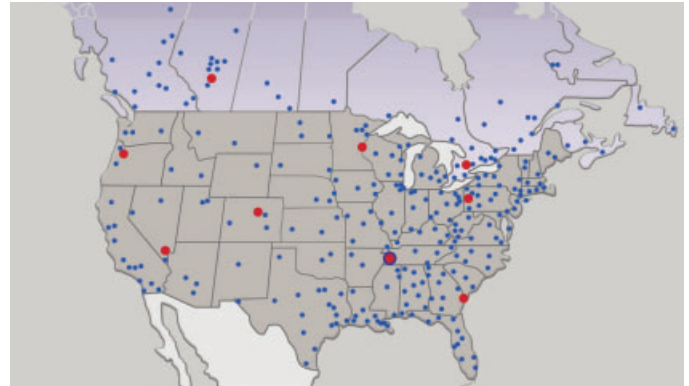
## Komatsu CARE – Extended Coverage

Komatsu equipment is built to withstand harsh operating environments, but our Extended Coverage can provide further peace of mind by protecting customers from unplanned expenses and impacts in cash flow. Purchasing Komatsu CARE's Extended Coverage locks-in the cost of covered parts and labor for the extended warranty period and helps to turn these variable expenses into a fixed cost.

- No Stop Loss or Loss Limits imposed, regardless of the coverage type or repair expense
- Any combination of months and hours out to five years and 10,000 engine hours – KOWA kits included
- Coverage premium can be rolled into the machine financing at time of sale or purchased any time before the expiration of the machine's standard warranty
- Coverage is fully transferable and honored by all Komatsu distributors throughout the U.S. and Canada

## Komatsu CARE – Total CARE

Total CARE combines the benefits of the Komatsu CARE Scheduled Maintenance and Extended Coverage programs on your Tier 4 machine. This ensures the use of Komatsu genuine parts and fluids during regular maintenance intervals as well as highly skilled and efficient technicians to perform any other warranty repair work that might be necessary to keep your Komatsu equipment running like new.



## Komatsu Parts Support

Because downtime can be costly, Komatsu maintains a strategic distribution network throughout the U.S. and Canada, to ensure superior parts availability and to keep your Komatsu machine up and running.

- Komatsu America has nine Parts Distribution Centers strategically located throughout the U.S. and Canada
- Komatsu America's Parts distribution network is accessible 24/7/365 to fulfill your parts needs
- Komatsu has a distributor network of over 325 locations across the U.S. and Canada
- Online parts ordering available through Komatsu eParts, 24/7/365. (See distributor for details)
- Komatsu offers a full line of factory Remanufactured products with same-as-new warranties at a significant cost reduction:
  1. Complete Engine Assemblies
  2. Transmissions
  3. Torque Converters
  4. Hydraulic components
  5. Starters, Alternators, turbochargers and circuit boards

## Komatsu Oil and Wear Analysis (KOWA)

The KOWA program uses independent laboratories across the United States to determine how your machine is performing based on a small sample of oil or other fluid. Just like a doctor will take a blood test to check on your personal health, KOWA allows you to check how your equipment is performing. Used with PM Clinic and PM Tune Up, KOWA is one of your best tools for proactively maintaining your Komatsu equipment and maximizing its availability and performance.

KOWA detects fuel dilution and coolant leaks, identifies contaminants, and measures wear-metals. Your distributor will help you interpret this information so you can identify potential problems and head them off before they lead to major repairs.

For more information of all of the manufacturer sponsored programs mentioned in this brochure, including terms and conditions of the individual programs, please speak with your distributor or go to [www.komatsuamerica.com](http://www.komatsuamerica.com)

## SPECIFICATIONS



### ENGINE

Model..... Komatsu SAA6D107E-2\*  
 Type .....Water-cooled, 4-cycle, direct injection  
 Aspiration..... Turbocharged, aftercooled, cooled EGR  
 Number of cylinders..... 6  
 Bore .....107 mm **4.21"**  
 Stroke .....124 mm **4.88"**  
 Piston displacement.....6.69 ltr **408 in<sup>3</sup>**  
 Horsepower:  
   SAE J1995.....Gross 159 kW **213 HP**  
   ISO 9249 / SAE J1349 ..... Net 147 kW **196 HP**  
   Rated rpm..... 2050  
 Fan drive method for radiator cooling..... Mechanical  
 Governor..... All-speed control, electronic  
 \*EPA Tier 4 Interim and EU stage 3B emissions certified



### HYDRAULICS

Type .....HydrauMind (Hydraulic Mechanical Intelligence New Design) 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 ..... 479 ltr/min **126.5 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/cm<sup>2</sup> **5,400 psi**  
   Travel circuit..... 37.3 MPa 380 kg/cm<sup>2</sup> **5,400 psi**  
   Swing circuit..... 28.9 MPa 295 kg/cm<sup>2</sup> **4,190 psi**  
   Pilot circuit..... 3.2 MPa 33 kg/cm<sup>2</sup> **470 psi**

Hydraulic cylinders:

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

Boom 2–140 mm x 1300 mm x 100 mm **5.5" x 51.2" x 3.9"**  
 Arm .... 1–150 mm x 1635 mm x 110 mm **5.9" x 64.3" x 4.3"**  
 Bucket 1–140 mm x 1009 mm x 100 mm **5.5" x 39.7" x 3.9"**



### DRIVES AND BRAKES

Steering control.....Two levers with pedals  
 Drive method ..... Hydrostatic  
 Maximum drawbar pull ..... 249 kN 25400 kg **56,000 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 ..... 10.5 rpm  
 Swing torque..... 8889 kg•m **64,292 ft lbs**



### UNDERCARRIAGE

Center frame ..... X-frame  
 Track frame ..... Box-section  
 Seal of track ..... Sealed track  
 Track adjuster ..... Hydraulic  
 Number of shoes (each side) ..... 48  
 Number of carrier rollers (each side) ..... 2  
 Number of track rollers (each side) ..... 8



### COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank ..... 400 ltr **105.7 U.S. gal**  
 Coolant ..... 36 ltr **9.5 U.S. gal**  
 Engine..... 23.1 ltr **6.1 U.S. gal**  
 Final drive, each side..... 8.5 ltr **2.2 U.S. gal**  
 Swing drive ..... 7.2 ltr **1.9 U.S. gal**  
 Hydraulic tank..... 132 ltr **34.9 U.S. gal**  
 Hydraulic system..... 250 ltr **66.0 U.S. gal**



### OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 6150 mm **20'2"** one-piece boom, 3200 mm **10'6"** arm, SAE heaped 1.41 m<sup>3</sup> **1.85 yd<sup>3</sup>** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure
700 mm	30570 kg	0.50 kg/cm <sup>2</sup>
<b>28"</b>	<b>67,396 lb</b>	<b>7.17 psi</b>
800 mm	30950 kg	0.45 kg/cm <sup>2</sup>
<b>31.5"</b>	<b>68,234 lb</b>	<b>6.36 psi</b>
850 mm	31141 kg	0.42 kg/cm <sup>2</sup>
<b>33.5"</b>	<b>68,654 lb</b>	<b>6.01 psi</b>

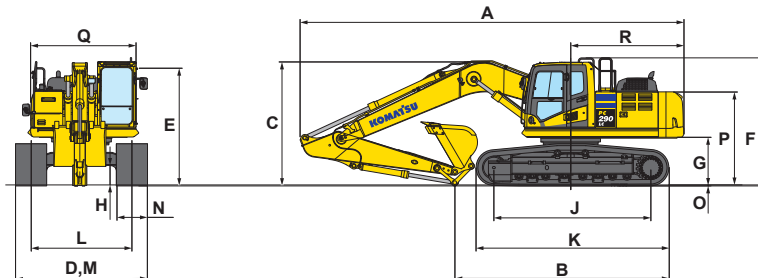
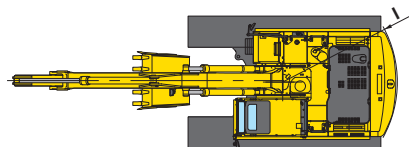
### Component Weights

Arm including bucket cylinder and linkage  
   3200 mm **10'6"** arm assembly ..... 1432 kg **3,157 lb**  
   3500 mm **11'6"** arm assembly ..... 1504 kg **3,316 lb**  
 One piece boom including arm cylinder  
   6150 mm **20'2"** boom assembly ..... 2448 kg **5,397 lb**  
 Boom cylinders x 2 ..... 231 kg **509 lb**  
 Counterweight ..... 5510 kg **12,148 lb**  
   1.41 m<sup>3</sup> **1.85 yd<sup>3</sup>** bucket - 48" width..... 1088 kg **2,399 lb**



## DIMENSIONS

	Arm Length	3200 mm	10'6"	3500 mm	11'6"
<b>A</b>	Overall length	10185 mm	<b>33'5"</b>	10195 mm	<b>33'5"</b>
<b>B</b>	Length on ground (transport)	5625 mm	<b>18'5"</b>	5350 mm	<b>17'7"</b>
<b>C</b>	Overall height (to top of boom)*	3340 mm	<b>11'0"</b>	3375 mm	<b>11'1"</b>
<b>D</b>	Overall width	3390 mm	<b>11'1"</b>		
<b>E</b>	Overall height (to top of cab)*	3180 mm	<b>10'5"</b>		
<b>F</b>	Overall height (to top of handrail)*	3275 mm	<b>10'9"</b>		
<b>G</b>	Ground clearance, counterweight	1215 mm	<b>4'0"</b>		
<b>H</b>	Ground clearance, minimum	498 mm	<b>1'8"</b>		
<b>I</b>	Tail swing radius	2940 mm	<b>9'8"</b>		
<b>J</b>	Track length on ground	4030 mm	<b>13'3"</b>		
<b>K</b>	Track length	4955 mm	<b>16'3"</b>		
<b>L</b>	Track gauge	2590 mm	<b>8'6"</b>		
<b>M</b>	Width of crawler	3390 mm	<b>11'1"</b>		
<b>N</b>	Shoe width	800 mm	<b>31.5"</b>		
<b>O</b>	Grouser height	36 mm	<b>1.4"</b>		
<b>P</b>	Machine cab height	2380 mm	<b>7'10"</b>		
<b>Q</b>	Machine cab width **	2850 mm	<b>9'4"</b>		
<b>R</b>	Distance, swing center to rear end	2905 mm	<b>9'6"</b>		



\* : Including grouser height \*\* : Including handrail



## BACKHOE BUCKET, ARM AND BOOM COMBINATION

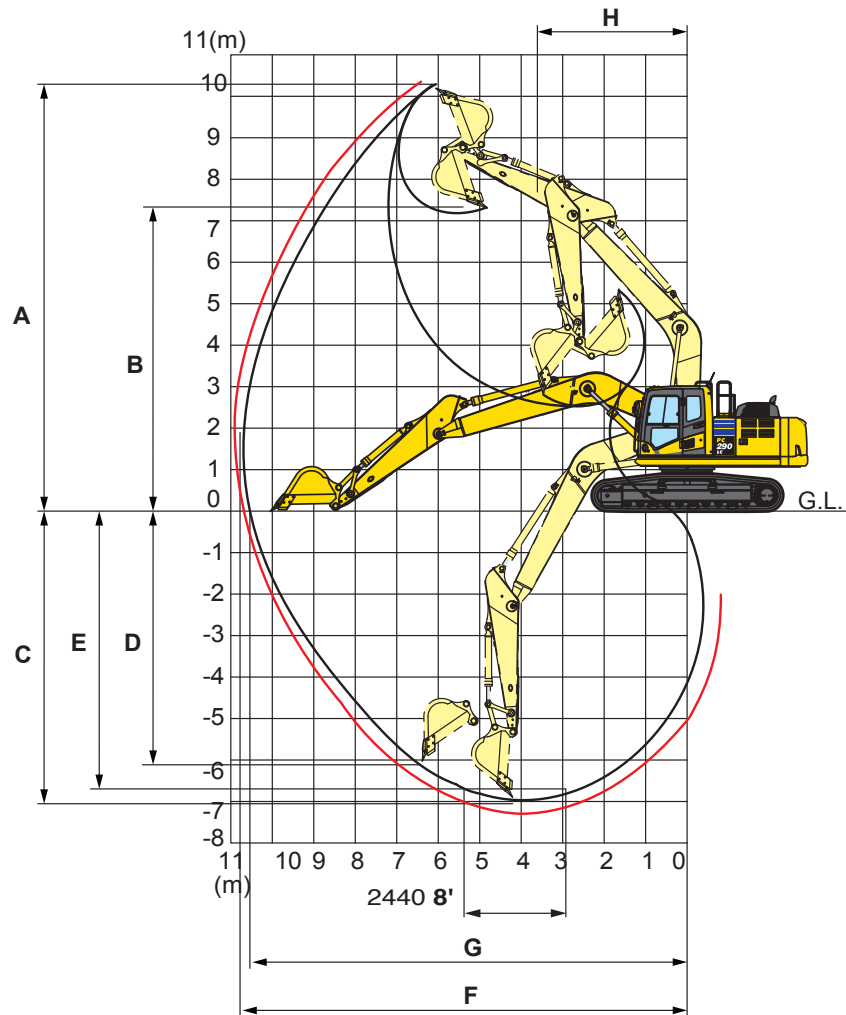
Bucket Type	Bucket						6.15 m (20'2") Boom	
	Capacity	Width	Weight	3.2 m (10'6")	3.5 m (11'6")			
Komatsu TL	0.58 m <sup>3</sup>	<b>0.76 yd<sup>3</sup></b>	610 mm <b>24"</b>	687 kg <b>1514 lb</b>	V	V		
	0.78 m <sup>3</sup>	<b>1.02 yd<sup>3</sup></b>	762 mm <b>30"</b>	807 kg <b>1779 lb</b>	V	V		
	0.99 m <sup>3</sup>	<b>1.29 yd<sup>3</sup></b>	914 mm <b>36"</b>	907 kg <b>2000 lb</b>	V	V		
	1.20 m <sup>3</sup>	<b>1.57 yd<sup>3</sup></b>	1067 mm <b>42"</b>	949 kg <b>2178 lb</b>	V	V		
	1.41 m <sup>3</sup>	<b>1.85 yd<sup>3</sup></b>	1219 mm <b>48"</b>	1045 kg <b>2399 lb</b>	W	W		
Komatsu HP	0.58 m <sup>3</sup>	<b>0.76 yd<sup>3</sup></b>	610 mm <b>24"</b>	812 kg <b>1791 lb</b>	V	V		
	0.78 m <sup>3</sup>	<b>1.02 yd<sup>3</sup></b>	762 mm <b>30"</b>	931 kg <b>2053 lb</b>	V	V		
	0.99 m <sup>3</sup>	<b>1.29 yd<sup>3</sup></b>	914 mm <b>36"</b>	1054 kg <b>2323 lb</b>	V	V		
	1.20 m <sup>3</sup>	<b>1.57 yd<sup>3</sup></b>	1067 mm <b>42"</b>	1154 kg <b>2545 lb</b>	V	V		
	1.41 m <sup>3</sup>	<b>1.85 yd<sup>3</sup></b>	1219 mm <b>48"</b>	1278 kg <b>2817 lb</b>	W	W		
Komatsu HPS	0.58 m <sup>3</sup>	<b>0.76 yd<sup>3</sup></b>	610 mm <b>24"</b>	870 kg <b>1917 lb</b>	V	V		
	0.78 m <sup>3</sup>	<b>1.02 yd<sup>3</sup></b>	762 mm <b>30"</b>	1020 kg <b>2248 lb</b>	V	V		
	0.99 m <sup>3</sup>	<b>1.29 yd<sup>3</sup></b>	914 mm <b>36"</b>	1162 kg <b>2562 lb</b>	V	V		
	1.20 m <sup>3</sup>	<b>1.57 yd<sup>3</sup></b>	1067 mm <b>42"</b>	1282 kg <b>2827 lb</b>	V	V		
	1.41 m <sup>3</sup>	<b>1.85 yd<sup>3</sup></b>	1219 mm <b>48"</b>	1425 kg <b>3142 lb</b>	W	X		
Komatsu HPX	0.58 m <sup>3</sup>	<b>0.76 yd<sup>3</sup></b>	610 mm <b>24"</b>	987 kg <b>2177 lb</b>	V	V		
	0.78 m <sup>3</sup>	<b>1.02 yd<sup>3</sup></b>	762 mm <b>30"</b>	1138 kg <b>2508 lb</b>	V	V		
	0.99 m <sup>3</sup>	<b>1.29 yd<sup>3</sup></b>	914 mm <b>36"</b>	1280 kg <b>2822 lb</b>	V	V		
	1.20 m <sup>3</sup>	<b>1.57 yd<sup>3</sup></b>	1067 mm <b>42"</b>	1400 kg <b>3087 lb</b>	V	W		
	1.41 m <sup>3</sup>	<b>1.85 yd<sup>3</sup></b>	1219 mm <b>48"</b>	1543 kg <b>3402 lb</b>	W	X		
	1.63 m <sup>3</sup>	<b>2.13 yd<sup>3</sup></b>	1372 mm <b>54"</b>	1689 kg <b>3724 lb</b>	X	Y		

V - Used with material weights up to 3,500 lb/yd<sup>3</sup> X - Used with material weights up to 2,500 lb/yd<sup>3</sup> Z - Not useable  
 W - Used with material weights up to 3,000 lb/yd<sup>3</sup> Y - Used with material weights up to 2,000 lb/yd<sup>3</sup>





## WORKING RANGE

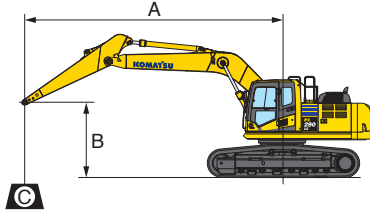


		3200 mm	10'6"	3500 mm	11'6"
<b>A</b>	Max. digging height	10345 mm	33'11"	10355 mm	34'0"
<b>B</b>	Max. dumping height	7370 mm	24'2"	7435 mm	24'5"
<b>C</b>	Max. digging depth	6915 mm	22'8"	7220 mm	23'8"
<b>D</b>	Max. vertical wall digging depth	6135 mm	20'2"	6440 mm	21'2"
<b>E</b>	Max. digging depth for 8' level bottom	6755 mm	22'2"	7070 mm	23'2"
<b>F</b>	Max. digging reach	10635 mm	34'11"	10890 mm	35'9"
<b>G</b>	Max. digging reach at ground level	10455 mm	34'4"	10715 mm	35'2"
<b>H</b>	Min. swing radius	3680 mm	12'1"	3740 mm	12'3"
<b>SAE rating</b>	Bucket digging force at power max.	176 kN 17900 kg / 39,460 lb		176 kN 17900 kg / 39,460 lb	
	Arm crowd force at power max.	129 kN 13140 kg / 28,969 lb		121 kN 12361 kg / 27,252 lb	
<b>ISO rating</b>	Bucket digging force at power max.	198 kN 20200 kg / 44,530 lb		198 kN 20200 kg / 44,530 lb	
	Arm crowd force at power max.	134 kN 13622 kg / 30,032 lb		125 kN 12787 kg / 28,191 lb	

# LIFT CAPACITIES



## LIFTING CAPACITY WITH LIFTING MODE



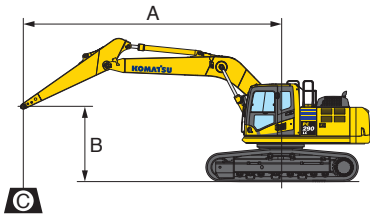
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗ : Rating at maximum reach

- Conditions :
- Boom length: 6150 mm 20' 2"
  - Bucket: None
  - Lifting mode: On

Arm: 3200 mm 10'6"      Shoes: 800 mm 31.5"      Unit: kg lb

B \ A	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'											* 4700	* 4700
6.1 m 20'					* 7350	* 7350	* 6350	5900			* 10400	* 10400
4.6 m 15'			* 9700	* 9700	* 8300	8100	* 7550	5800			* 4500	* 4500
3.0 m 10'			* 21400	* 21400	* 18300	17900	* 16700	12800			* 10000	* 10000
1.5 m 5'			* 12400	11700	* 9550	7750	* 8200	5650			* 4650	4400
0 m 0'	* 7350	* 7350	* 32400	24300	* 23800	16300	18400	12100			* 11000	9500
-1.5 m -5'	* 12550	* 12550	* 15850	10500	11200	7050	8100	5250			* 5500	4350
-3.0 m -10'	* 27700	* 27700	* 35000	23200	24700	15500	17900	11600			* 14200	10300
-4.6 m -15'	* 19300	* 19300	* 14900	10550	11250	7050					* 8200	5350
	* 17100	* 17100	* 12600	10800	* 9250	7250					* 18100	11800
	* 37700	* 37700	* 27800	23800	* 20400	16000					* 8800	6950
											* 19400	15400

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



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

- Conditions :
- Boom length: 6150 mm 20' 2"
  - Bucket: None
  - Lifting mode: On

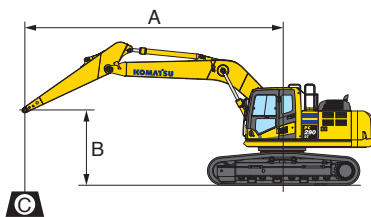
Arm: 3200 mm 10'6"      Shoes: 850 mm 33.5"      Unit: kg lb

B \ A	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'											* 4700	* 4700
6.1 m 20'					* 7350	* 7350	* 6350	5950			* 10400	* 10400
4.6 m 15'			* 9700	* 9700	* 8300	8150	* 7550	5850			* 4500	* 4500
3.0 m 10'			* 21400	* 21400	* 18300	18000	* 16700	12900			* 10000	* 10000
1.5 m 5'			* 12400	11750	* 9550	7800	* 8200	5700			* 4650	4450
0 m 0'	* 7350	* 7350	* 32400	24400	* 23800	16400	18500	12100			* 5000	4300
-1.5 m -5'	* 12550	* 12550	* 15850	10550	11300	7100	8150	5300			* 11000	9500
-3.0 m -10'	* 27700	* 27700	* 35000	23300	24900	15600	18000	11700			* 5500	4400
-4.6 m -15'	* 19300	* 19300	* 14900	10650	* 11300	7100					* 12200	9700
	* 17100	* 17100	* 12600	10850	* 9250	7300					* 6450	4700
	* 37700	* 37700	* 27800	23900	* 20400	16100					* 14200	10400
											* 8200	5400
											* 18100	11900
											* 8800	7000
											* 19400	15500

\*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 :
- Boom length: 6150 mm 20' 2"
  - Bucket: None
  - Lifting mode: On

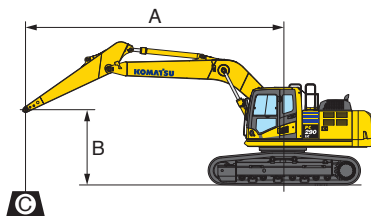
Arm: 3500 mm 11'6"

Shoes: 800 mm 31.5"

Unit: kg lb

B \ A	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'											* 4300	* 4300
6.1 m 20'							* 6350	5950			* 9500	* 9500
4.6 m 15'					* 7900	* 7900	* 7300	5850			* 4150	* 4150
3.0 m 10'					* 17400	* 17400	* 16100	12900			* 9200	* 9200
1.5 m 5'			* 11750	* 11750	* 9200	7750	* 7950	5650	* 5000	4300	* 4300	4250
0 m 0'	* 8200	* 8200	* 15600	10600	11300	7100	8150	5300			* 5050	4200
-1.5 m -5'	* 18100	* 18100	* 34400	23300	25000	15700	18000	11700			* 11100	9200
-3.0 m -10'	* 12500	* 12500	* 15850	10400	11150	7000	8050	5200			* 5850	4450
-4.6 m -15'	* 27600	* 27600	* 34900	23000	24600	15400	17800	11500			* 12900	9800
	* 18300	* 18300	* 15100	10450	11150	6950	17900	5250			* 7400	5050
	* 40300	* 40300	* 33300	23000	24600	15400	8100	11500			* 16300	11100
	* 18050	* 18050	* 13150	10650	* 9800	7100					* 8650	6400
	* 39900	* 39900	* 29000	23500	* 21600	15700					* 19100	14100

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



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

- Conditions :
- Boom length: 6150 mm 20' 2"
  - Bucket: None
  - Lifting mode: On

Arm: 3500 mm 11'6"

Shoes: 850 mm 33.5"

Unit: kg lb

B \ A	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'											* 4300	* 4300
6.1 m 20'							* 6350	6000			* 4150	* 4150
4.6 m 15'					* 7900	* 7900	* 7300	5850			* 9200	* 9200
3.0 m 10'					* 17400	* 17400	* 16100	12900			* 4150	* 4150
1.5 m 5'			* 11750	* 11750	* 9200	7800	* 7950	5700	* 5000	4350	* 4300	4250
0 m 0'	* 8200	* 8200	* 15600	10650	11400	7150	8200	5350			* 9500	9400
-1.5 m -5'	* 18100	* 18100	* 34400	23500	25100	15800	18100	11800			* 4600	4150
-3.0 m -10'	* 12500	* 12500	* 15850	10450	11200	7000	8100	5250			* 5750	4250
-4.6 m -15'	* 27600	* 27600	* 34900	23100	24800	15500	17900	11600			* 12700	9400
	* 18300	* 18300	* 15100	10500	11200	7000	8150	5250			* 4600	4150
	* 40300	* 40300	* 33300	23200	24700	15500	18000	11600			* 10100	9100
	* 18050	* 18050	* 13150	10700	* 9800	7150					* 5050	4200
	* 39900	* 39900	* 29000	23600	* 21600	15800					* 11100	9300
											* 5850	4450
											* 12900	9900
											* 7400	5050
											* 16300	11200
											* 8650	6450
											* 19100	14200

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



## STANDARD EQUIPMENT

- Alternator, 60 Ampere, 24V
- AM/FM radio
- Automatic engine warm-up system
- Automatic air conditioner/heater
- Auxiliary input (3.5 mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valves
- Converter, (2) x 12V
- Counterweight, 5510 kg **12,148 lb**
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-2
- Engine overheat prevention system
- 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 4.0
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1
- Pattern change valve (ISO to BH control)
- 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
- Travel alarm
- Working lights, 2 (boom and RH front)
- Working mode selection system



## OPTIONAL EQUIPMENT

- (1) additional rearview camera
- Arms
  - 3200 mm **10'6"** arm assembly
  - 3200 mm **10'6"** arm assembly with piping
  - 3500 mm **11'6"** arm assembly
- Booms
  - 6150 mm **20'2"** boom assembly
  - 6150 mm **20'2"** 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
- Rain visor
- Revolving frame undercovers, heavy duty
- Shoes, triple grouser, 700 mm **28"**
- Shoes, triple grouser, 850 mm **31.5"**
- Sun 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.**

PC290LC-10

**KOMATSU®**