

# KOMATSU®

# PC390LC-10

Tier 4 Interim Engine

PC390LC

**NET HORSEPOWER**

257 HP @ 1950rpm  
192 kW @ 1950rpm

**OPERATING WEIGHT**

86,998–89,071 lb  
39461–40402 kg

**BUCKET CAPACITY**

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



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

PC390LC

# WALK-AROUND

PC390LC-G-10



Photos may include optional equipment

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## EXCEPTIONAL STABILITY & LOW FUEL CONSUMPTION

### Large Undercarriage Design

significantly increases overside lift capacity and provides exceptional lateral stability in applications that require long arms or heavy attachments.

### New engine and hydraulic pump control technology

improves operational efficiency and lowers fuel consumption.

A powerful Komatsu SAA6D114E-5 engine provides a net output of 192 kW **257 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.

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

**Robust undercarriage** is designed using larger size class components for increased reliability and component longevity.

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

### Large LCD color monitor panel:

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

### Rearview monitoring system (standard)

### Enhanced working modes

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

### 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)

### Equipment Management Monitoring System (EMMS)

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

### Komatsu's Closed Center Load Sensing (CLSS)

hydraulic system provides quick response and smooth operation to maximize productivity.



**Heavy duty boom design** with large one piece castings provides increased strength and reliability.

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

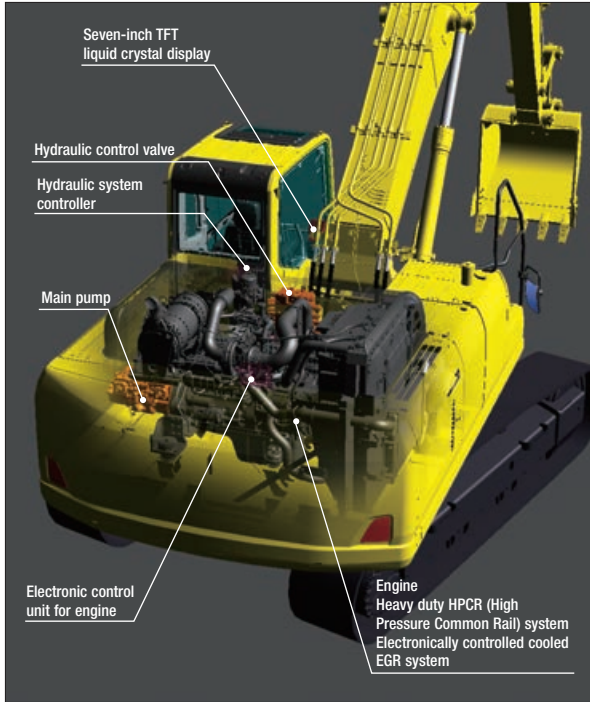
### Battery disconnect switch

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

### Komatsu designed and manufactured components

## 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 SAA6D114E-5 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.

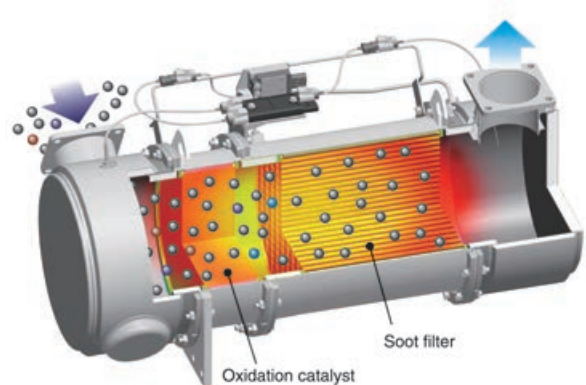
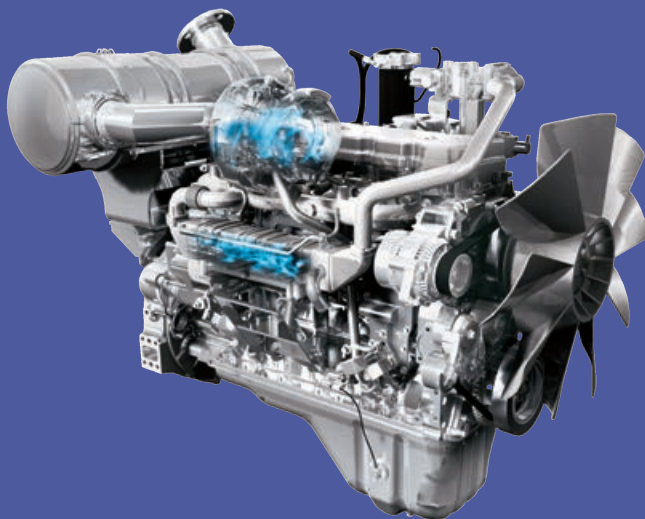
### Low Operational Noise

The PC390LC-10 provides low noise operation using a low noise engine and methods that reduce noise at the source such as sound absorbing materials.

### Komatsu Diesel Particulate Filter (KDPF)

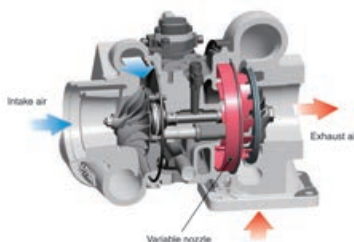
Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system 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.



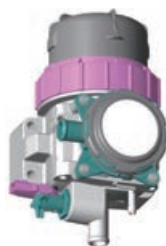
## Komatsu Variable Geometry Turbocharger (KVG T)

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.



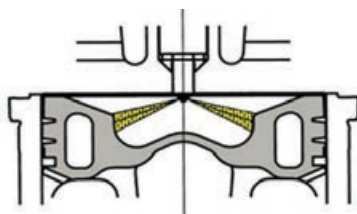
## Closed Crankcase Ventilation (CCV)

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.



## 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.



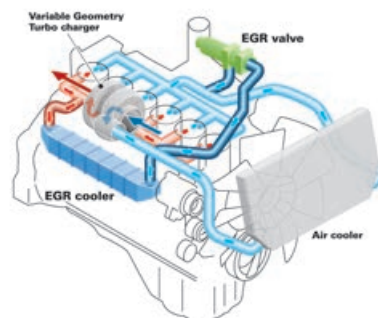
## Smooth Loading Operation

Two return hoses improve hydraulic performance. During the arm out function, a portion of the oil is returned directly back to the tank for smooth operation.



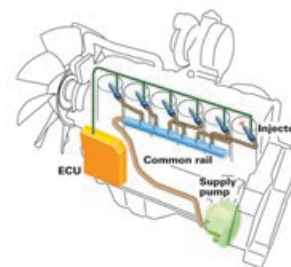
## Cooled Exhaust Gas Recirculation (EGR)

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 PC390LC-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):

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

### Maximum bucket digging force (ISO):

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

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

## Efficient Hydraulic System

The PC390LC-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator's demands.

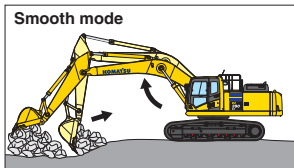
The PC390LC-10 also introduces new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

**Reduced Up To 10% Fuel consumption**

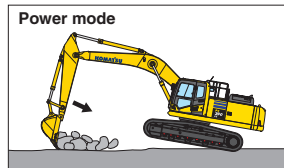
vs PC350HD-8  
Based on typical work pattern collected via KOMTRAX

## Two Boom Mode Settings

Smooth boom mode provides easy operation for gathering blasted rock or when scraping down. Power boom mode maximizes digging force for more effective excavating.



Boom floats upward, reducing lifting of the machine. This improves comfort while gathering blasted rock and scraping down.



Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.

## Large Undercarriage Design

The PC390LC-10 uses a large undercarriage design that increases overside lift capacity by up to 20% and improves lateral stability, especially for applications that require long arms or heavy attachments.

## Large Maximum Drawbar Pull

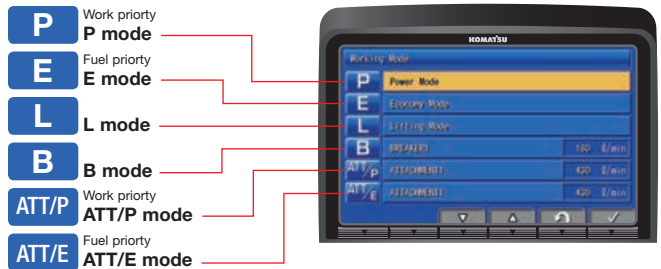
Large maximum drawbar pull provides excellent steering and slope climbing performance (13.3% up over the PC360LC-10)

**Maximum Drawbar Pull** 329 kN 33510 kgf **73,880 lb**

## Working Mode Selection

The PC390LC-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 PC390LC-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>



## 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

## 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. An HD boom assembly is offered for increased strength and reliability.



### Komatsu Designed Components

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

### High Efficiency Fuel Filter

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

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

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



Fuel filter      Fuel pre-filter (with water separator)

### Durable Frame Structure

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

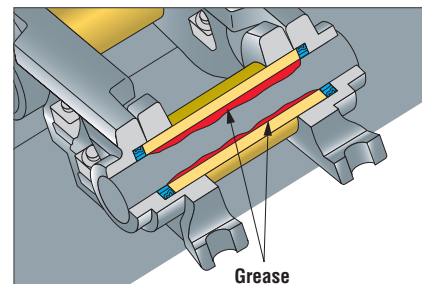
### Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

- Controllers
- Sensors
- Connectors
- Heat Resistant Wiring

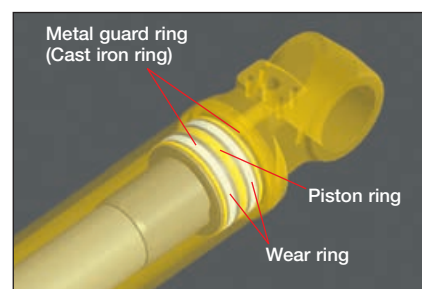
### Grease Sealed Track

The PC390LC-10 uses grease sealed tracks for extended undercarriage life.



### Metal Guard Rings

The PC390LC-10 uses metal guard rings to protect all of the hydraulic cylinders and improve long term reliability.



### O-Ring Face Seals

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



### Robust Undercarriage

The undercarriage is designed using larger size class components to provide improved reliability and long component life.





### 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

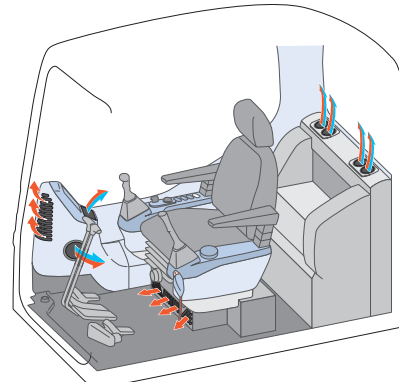


### Low Cab Noise

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.

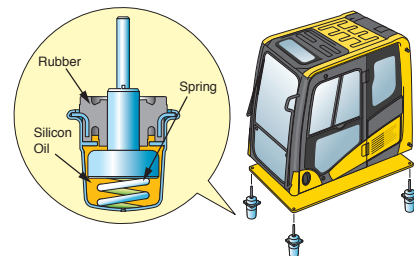


### Pressurized Cab

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 PC390LC-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 |

## Operational "ECO" Guidance

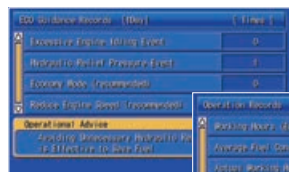
The monitor panel provides operational advice to the operator to help improve machine efficiency and lower fuel consumption. The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption Logs.



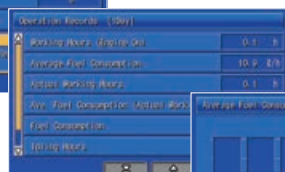
ECO Guidance



ECO Guidance menu



ECO Guidance Records



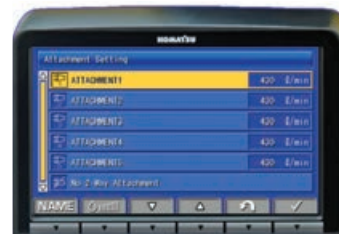
Operation Records



Average Fuel Consumption Logs

## Improved Attachment Control

The PC390LC-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

### 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.



### Easier Engine Access

Engine maintenance is made easier with a new platform.



### Sloped Track Frame

Minimizes dirt and sand accumulation while allowing easy mud removal.



### Battery Disconnect Switch

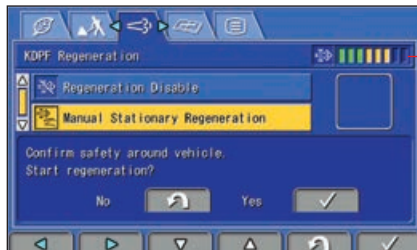
A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.



### 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.



### 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)

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

### Extended Work Equipment Greasing Intervals

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

### Equipped with Eco-drain Valve

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



## Gas Assisted Engine Hood Damper Cylinders

The engine hood can be easily opened and closed by using the gas assisted engine hood damper cylinders.

## Equipment Management Monitoring System (EMMS)

The PC390LC-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.

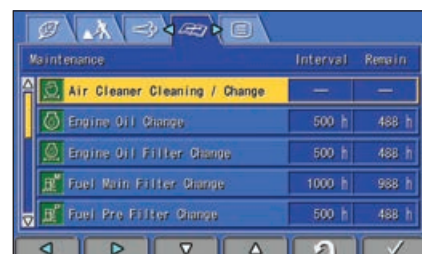


## Advanced Monitoring System

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 PC390LC-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 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 **aids in making repair or replacement decisions**

## ✓ WHEN

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

## ✓ WHERE

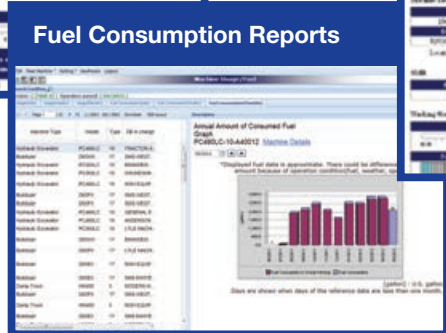
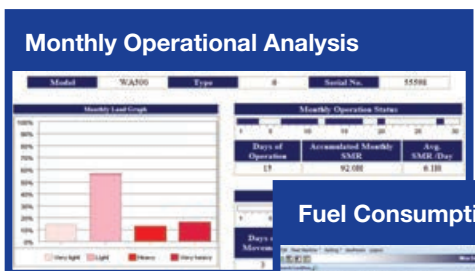
- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

## ✓ WHO

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

## ✓ WHY

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



**KOMTRAX**<sup>®</sup>

**KOMTRAX Plus**

For construction and compact equipment.

For production and mining class machines.



## Komatsu CARE – Complimentary Scheduled Maintenance

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



## Komatsu CARE – Extended Coverage

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



## Komatsu Parts Support

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



## Komatsu Oil and Wear Analysis (KOWA)

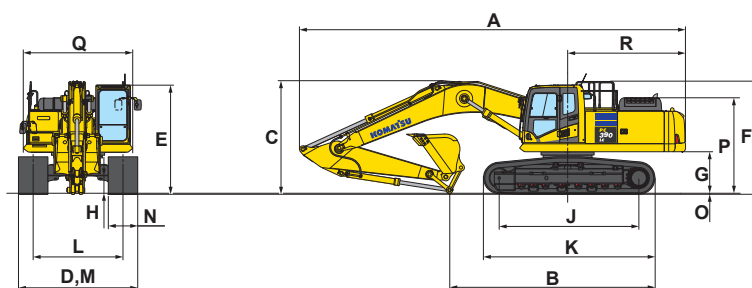
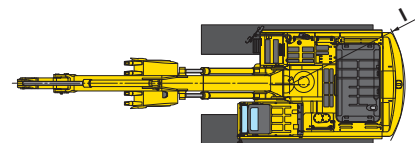
- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life





## DIMENSIONS

	Arm Length	2540 mm	8'4"	3185 mm	10'5"	4020 mm	13'2"
<b>A</b>	Overall length	11130 mm	36'6"	11170 mm	36'8"	11230 mm	36'10"
<b>B</b>	Length on ground (transport)	6800 mm	22'4"	7530 mm	24'8"	5515 mm	18'1"
<b>C</b>	Overall height (to top of boom)*	3245 mm	10'8"	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)*	3230 mm	10'7"				
<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	550 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	5355 mm	17'7"				
<b>L</b>	Track gauge	2740 mm	9'0"				
<b>M</b>	Width of crawler	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 cab height	2858 mm	9'5"				
<b>Q</b>	Machine cab width **	3145 mm	10'4"				
<b>R</b>	Distance, swing center to rear end	3405 mm	11'2"				



\* : Including grouser height

\*\* : Including handrail



## BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket						6.5 m (21'3") Boom		
	Capacity		Width		Weight		2.6 m (8'4")	3.2 m (10'5")	4.0 m (13'2")
Komatsu TL	0.93 m <sup>3</sup>	<b>1.21 yd<sup>3</sup></b>	762 mm	<b>30"</b>	1097 kg	<b>2418 lb</b>	V	V	V
	1.18 m <sup>3</sup>	<b>1.54 yd<sup>3</sup></b>	914 mm	<b>36"</b>	1198 kg	<b>2641 lb</b>	V	V	V
	1.44 m <sup>3</sup>	<b>1.88 yd<sup>3</sup></b>	1067 mm	<b>42"</b>	1325 kg	<b>2921 lb</b>	V	V	V
	1.70 m <sup>3</sup>	<b>2.22 yd<sup>3</sup></b>	1219 mm	<b>48"</b>	1426 kg	<b>3144 lb</b>	V	V	W
	1.96 m <sup>3</sup>	<b>2.56 yd<sup>3</sup></b>	1372 mm	<b>54"</b>	1554 kg	<b>3425 lb</b>	W	W	X
	2.22 m <sup>3</sup>	<b>2.91 yd<sup>3</sup></b>	1524 mm	<b>60"</b>	1554 kg	<b>3425 lb</b>	X	X	Y
Komatsu HP	0.68 m <sup>3</sup>	<b>0.89 yd<sup>3</sup></b>	610 mm	<b>24"</b>	1022 kg	<b>2254 lb</b>	V	V	V
	0.93 m <sup>3</sup>	<b>1.21 yd<sup>3</sup></b>	762 mm	<b>30"</b>	1178 kg	<b>2598 lb</b>	V	V	V
	1.18 m <sup>3</sup>	<b>1.54 yd<sup>3</sup></b>	914 mm	<b>36"</b>	1358 kg	<b>2993 lb</b>	V	V	V
	1.44 m <sup>3</sup>	<b>1.88 yd<sup>3</sup></b>	1067 mm	<b>42"</b>	1439 kg	<b>3173 lb</b>	V	V	V
	1.70 m <sup>3</sup>	<b>2.22 yd<sup>3</sup></b>	1219 mm	<b>48"</b>	1555 kg	<b>3429 lb</b>	V	V	X
	1.96 m <sup>3</sup>	<b>2.56 yd<sup>3</sup></b>	1372 mm	<b>54"</b>	1701 kg	<b>3750 lb</b>	W	X	Y
Komatsu HPS	0.68 m <sup>3</sup>	<b>0.89 yd<sup>3</sup></b>	610 mm	<b>24"</b>	1112 kg	<b>2451 lb</b>	V	V	V
	0.93 m <sup>3</sup>	<b>1.21 yd<sup>3</sup></b>	762 mm	<b>30"</b>	1294 kg	<b>2853 lb</b>	V	V	V
	1.18 m <sup>3</sup>	<b>1.54 yd<sup>3</sup></b>	914 mm	<b>36"</b>	1437 kg	<b>3167 lb</b>	V	V	V
	1.44 m <sup>3</sup>	<b>1.88 yd<sup>3</sup></b>	1067 mm	<b>42"</b>	1607 kg	<b>3543 lb</b>	V	V	W
	1.70 m <sup>3</sup>	<b>2.22 yd<sup>3</sup></b>	1219 mm	<b>48"</b>	1750 kg	<b>3857 lb</b>	V	W	X
	1.96 m <sup>3</sup>	<b>2.56 yd<sup>3</sup></b>	1372 mm	<b>54"</b>	1921 kg	<b>4236 lb</b>	W	X	Y
Komatsu HPX	0.68 m <sup>3</sup>	<b>0.89 yd<sup>3</sup></b>	610 mm	<b>24"</b>	1239 kg	<b>2731 lb</b>	V	V	V
	0.93 m <sup>3</sup>	<b>1.21 yd<sup>3</sup></b>	762 mm	<b>30"</b>	1421 kg	<b>3133 lb</b>	V	V	V
	1.18 m <sup>3</sup>	<b>1.54 yd<sup>3</sup></b>	914 mm	<b>36"</b>	1564 kg	<b>3447 lb</b>	V	V	V
	1.44 m <sup>3</sup>	<b>1.88 yd<sup>3</sup></b>	1067 mm	<b>42"</b>	1734 kg	<b>3823 lb</b>	V	V	W
	1.70 m <sup>3</sup>	<b>2.22 yd<sup>3</sup></b>	1219 mm	<b>48"</b>	1877 kg	<b>4137 lb</b>	V	W	X
	1.96 m <sup>3</sup>	<b>2.56 yd<sup>3</sup></b>	1372 mm	<b>54"</b>	2048 kg	<b>4516 lb</b>	X	X	Y
	2.22 m <sup>3</sup>	<b>2.91 yd<sup>3</sup></b>	1524 mm	<b>60"</b>	2048 kg	<b>4516 lb</b>	Y	Y	Z

V - Used with material weights up to 3,500 lb/yd<sup>3</sup>  
 W - Used with material weights up to 3,000 lb/yd<sup>3</sup>

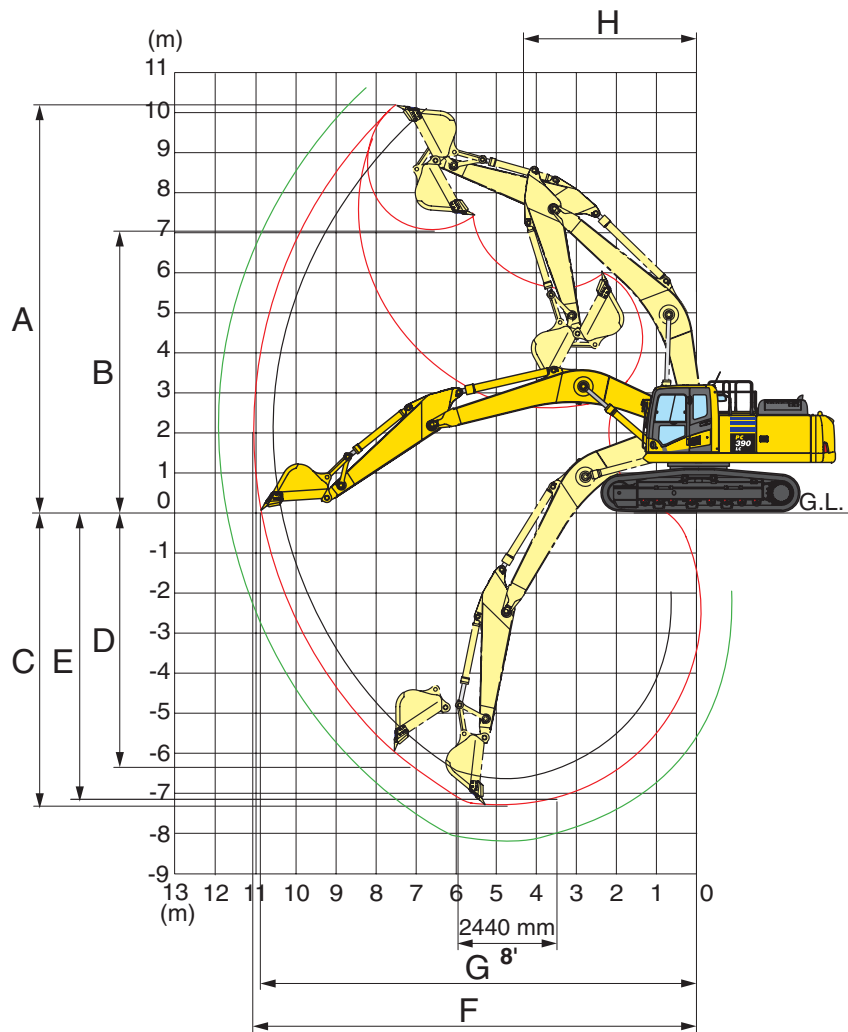
X - Used with material weights up to 2,500 lb/yd<sup>3</sup>  
 Y - Used with material weights up to 2,000 lb/yd<sup>3</sup>

Z - Not useable





## WORKING RANGE

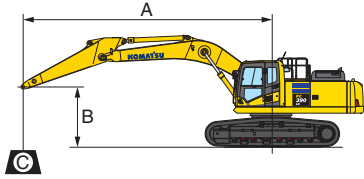


		2540 mm	8'4"	3185 mm	10'5"	4020 mm	13'2"
<b>A</b>	Max. digging height	10070 mm	33'4"	10260 mm	33'7"	10660 mm	35'0"
<b>B</b>	Max. dumping height	7005 mm	23'0"	7155 mm	23'6"	7600 mm	24'11"
<b>C</b>	Max. digging depth	6640 mm	21'9"	7265 mm	23'10"	8100 mm	26'7"
<b>D</b>	Max. vertical wall digging depth	5795 mm	19'0"	6235 mm	20'6"	7145 mm	23'5"
<b>E</b>	Max. digging depth for 8' level bottom	6455 mm	21'2"	7100 mm	23'3"	7975 mm	26'2"
<b>F</b>	Max. digging reach	10550 mm	34'7"	11100 mm	36'5"	11895 mm	39'0"
<b>G</b>	Max. digging reach at ground level	10315 mm	33'10"	10870 mm	35'8"	11705 mm	38'5"
<b>H</b>	Min. swing radius	4400 mm	14'5"	4310 mm	14'2"	4320 mm	14'2"
<b>SAE rating</b>	Bucket digging force at power max.	229 kN 23300 kg / 51,370 lb		200 kN 20400 kg / 44,970 lb		200 kN 20400 kg / 44,970 lb	
	Arm crowd force at power max.	193 kN 19700 kg / 43,430 lb		165 kN 16800 kg / 37,040 lb		139 kN 14200 kg / 31,310 lb	
<b>ISO rating</b>	Bucket digging force at power max.	259 kN 26400 kg / 58,200 lb		228 kN 23200 kg / 51,150 lb		227 kN 23100 kg / 50,930 lb	
	Arm crowd force at power max.	201 kN 20500 kg / 45,190 lb		171 kN 17400 kg / 38,360 lb		144 kN 14700 kg / 32,410 lb	

# LIFT CAPACITIES



## LIFTING CAPACITY WITH LIFTING MODE



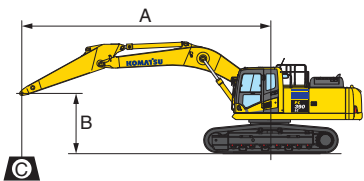
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗ : Rating at maximum reach

- Conditions :
- 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 \ 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'											* 7200	* 7200
6.1 m 20'							* 8900	8800			* 15900	* 15900
4.6 m 15'					* 10800	* 10800	* 9400	8650			* 7100	6650
3.0 m 10'					* 23850	* 23850	* 20750	19050			* 15650	14750
1.5 m 5'			* 16350	* 16350	* 12150	11400	* 10050	8400	* 8800	6500	* 7400	6300
0 m 0'			* 36150	* 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

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

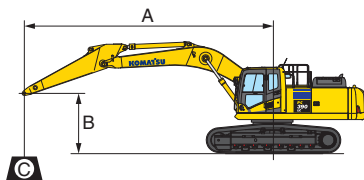
Arm: 3185 mm 10'5"      Shoes: 900 mm 35.5"      Unit: kg lb

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'											* 7200	* 7200
6.1 m 20'							* 8900	8900			* 15900	* 15900
4.6 m 15'					* 10800	* 10800	* 9400	8700			* 7100	6750
3.0 m 10'					* 23850	* 23850	* 20750	19250			* 15650	14900
1.5 m 5'			* 16350	* 16350	* 12150	11550	* 10050	8500	* 8800	6600	* 7400	6350
0 m 0'			* 36150	* 36150	* 26850	25450	* 22200	18700	* 19450	14550	* 16300	14050
-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

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

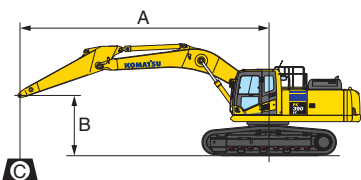
Arm: 4020 mm 13'2"

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'											* 5600	* 5600
											* 12350	* 12350
6.1 m 20'							* 7900	* 7900	* 6700	* 6650	* 5450	* 5450
							* 17500	* 17500	* 14850	* 14700	* 12050	* 12050
4.6 m 15'							* 8500	* 8500	* 7800	* 6600	* 5500	* 5500
							* 18750	* 18750	* 17300	* 14550	* 12100	* 12100
3.0 m 10'			* 14450	* 14450	* 11050	* 11050	* 9250	* 8350	* 8200	* 6450	* 5650	* 5500
			* 31850	* 31850	* 24350	* 24350	* 20450	* 18400	* 18050	* 14200	* 12500	* 12100
1.5 m 5'			* 16900	16350	* 12350	10900	* 10000	8050	* 8500	6250	* 6000	5350
			* 37250	36050	* 27250	24050	* 22000	17750	* 18800	13850	* 13200	11850
0 m 0'	* 8550	* 8550	* 17950	15700	* 13200	10550	* 10450	7800	* 8700	6150	* 6550	5450
	* 18900	* 18900	* 39650	34650	* 29150	23300	* 23050	17250	* 19200	13550	* 14400	12050
-1.5 m -5'	* 12750	* 12750	* 17800	15450	* 13300	10300	* 10500	7650	* 8500	6100	* 7400	5750
	* 28150	* 28150	* 39250	34150	* 29350	22800	* 23150	16950	* 18700	13450	* 16350	12750
-3.0 m -10'	* 18300	* 18300	* 16500	15500	* 12600	10300	* 9850	7650			* 7950	6400
	* 40350	* 40350	* 36450	34200	* 27800	22750	* 21750	16900			* 17600	14150
-4.6 m -15'	* 18650	* 18650	* 14000	14000	* 10750	10400	* 7900	7800			* 7750	7750
	* 41150	* 41150	* 30900	30900	* 23750	22950	* 17400	17250			* 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.



- 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: 4020 mm 13'2"

Shoes: 900 mm 35.5"

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'											* 5600	* 5600
											* 12350	* 12350
6.1 m 20'							* 7900	* 7900	* 6700	* 6700	* 5450	* 5450
							* 17500	* 17500	* 14850	* 14850	* 12050	* 12050
4.6 m 15'							* 8500	* 8500	* 7800	* 6650	* 5500	* 5500
							* 18750	* 18750	* 17300	* 14700	* 12100	* 12100
3.0 m 10'			* 14450	* 14450	* 11050	* 11050	* 9250	* 8450	* 8200	* 6500	* 5650	* 5550
			* 31850	* 31850	* 24350	* 24350	* 20450	* 18600	* 18050	* 14350	* 12500	* 12250
1.5 m 5'			* 16900	16500	* 12350	11000	* 10000	8150	* 8500	6350	* 6000	5450
			* 37250	36400	* 27250	24300	* 22000	17950	* 18800	14000	* 13200	12000
0 m 0'	* 8550	* 8550	* 17950	15850	* 13200	10650	* 10450	7900	* 8700	6200	* 6550	5500
	* 18900	* 18900	* 39650	35000	* 29150	23550	* 23050	17450	* 19200	13700	* 14400	12200
-1.5 m -5'	* 12750	* 12750	* 17800	15650	* 13300	10450	* 10500	7750	* 8500	6150	* 7400	5850
	* 28150	* 28150	* 39250	34500	* 29350	23000	* 23150	17150	* 18700	13600	* 16350	12900
-3.0 m -10'	* 18300	* 18300	* 16500	15650	* 12600	10400	* 9850	7750			* 7950	6500
	* 40350	* 40350	* 36450	34550	* 27800	22950	* 21750	17100			* 17600	14300
-4.6 m -15'	* 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

- Alternator, 60 Ampere, 24 V
- AM/FM radio
- Automatic engine warm-up system
- Automatic air conditioner/heater
- Auxiliary input (3.5mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valves
- Converter, (2) x 12 V
- Counterweight, 7090 kg **15,631 lb**
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D114E-5
- 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, 11.0 kW/24 V 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
  - 2540 mm **8'4"** arm assembly
  - 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
  - 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, 900 mm **35.5"**
- 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.**