

KOMATSU®

PC390LL-10

Tier 4 Interim Engine

PC390LL

NET HORSEPOWER

257 HP @ 1950rpm

192 kW @ 1950rpm

OPERATING WEIGHT

Log Loader 106,920 lb

48,500 kg

Road Builder 103,400 lb

46,900 kg



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT



1. HD reinforced front idler
2. HD straddle mounted carrier rollers
3. Ski-type roller guards with 9" pitch track
4. PC450 class final drives
5. PC490 class swing system
6. HD full under cover guards
7. Full length grip strut walkways
8. HD rear compartment doors
9. Engine heat shields

10. Rear view camera
11. Komatsu ROPS/OPS/FOPS/TOPS/FOG/WCB/ Oregon OSHA certified forestry cab with Komatsu excavator interior
12. 48" hydraulic tilting or 7" fixed cab riser
13. Komatsu 42' live heel logging boom
14. Boom and arm cylinder guards
15. Komatsu designed cylinders and cylinder components
16. Factory installed 58" & 60" opening forestry grapples
17. High and wide carbody with 2-piece hinged HD swivel guard and front/rear pull hooks
18. Reinforced revolving frame
19. High pressure pump outlet screens

PC390LL-10

Tier 4 Interim Engine

NET HORSEPOWER

257 HP @ 1950rpm
192 kW @ 1950rpm

OPERATING WEIGHT

Log Loader	106,924 lb	48,500 kg
Road Builder	103,396 lb	46,900 kg



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 emission certified.

Komatsu Variable Geometry Turbocharger (KVGIT) 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. Special forestry regeneration logic prompts the operator to select a location for initiating a manual stationary regeneration.

Komatsu ROPS/OPS/FOPS/TOPS/FOG/WCB/Oregon OSHA certified forestry cab

- High back, heated, and air suspension operator seat
- Enhanced working environment

Heavy duty Komatsu live heel forestry boom

42' reach logging boom design with Komatsu cylinders and cylinder guards

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

Large maximum drawbar pull provides excellent maneuverability and shovel logging 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.

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

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.

Grip strut walkways and handrails

located on the machine upper structure provide a more convenient work area along both sides of the machine for maintenance and service.

Battery disconnect switch

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

Heavy duty forestry guarding package for rugged logging applications.

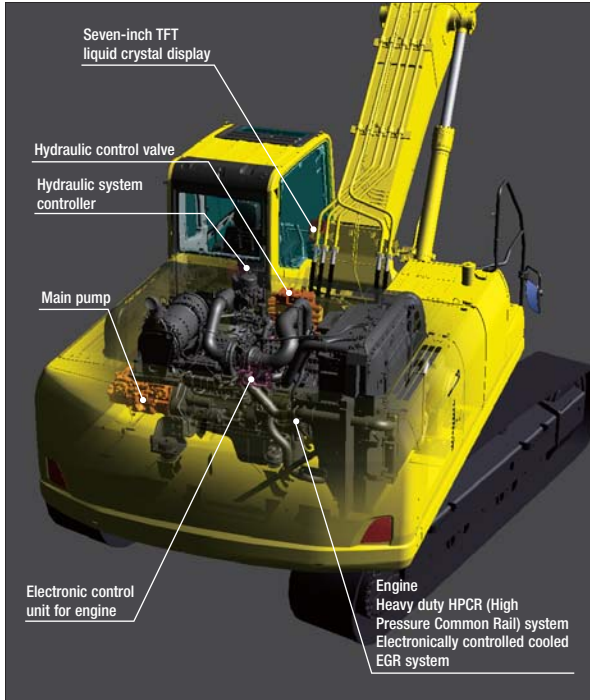
Komatsu designed and manufactured components

including: high & wide undercarriage, 42' live heel logging boom, forestry boom, forestry cab, engine, hydraulic pumps, hydraulic motors, control valves and hydraulic cylinders.



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.

Environmentally-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.

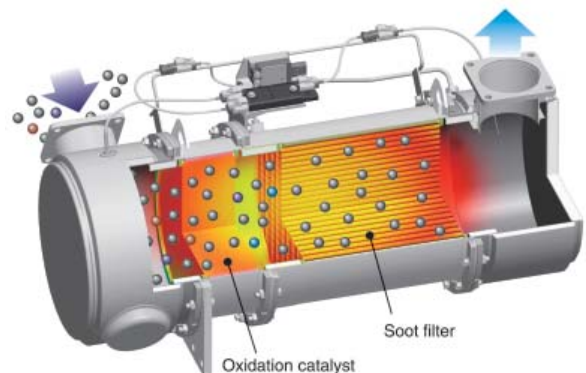
Low Operational Noise

The PC390LL-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)

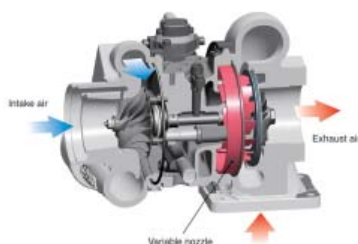
Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. When required, the engine controller displays a message that a manual stationary regeneration is needed so the operator can select a time and location for regeneration. A special oxidation 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.

When regeneration is required, special forestry logic allows the operator to initiate a manual regeneration at a time and location of his choosing.



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.



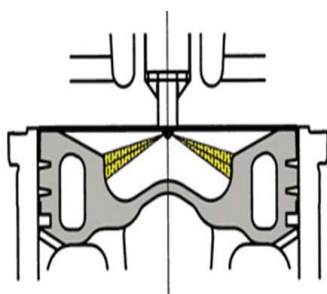
Komatsu Closed Crankcase Ventilation (KCCV)

Crankcase emissions (blow-by gas) are passed through a Komatsu CCV filter. The KCCV 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 has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption, and noise levels.



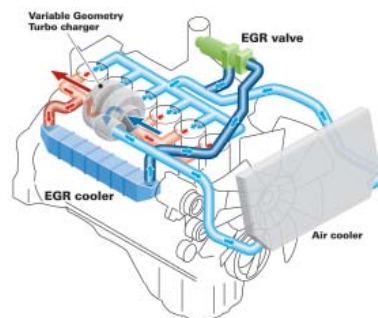
Smooth Loading Operation Road Builder

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.



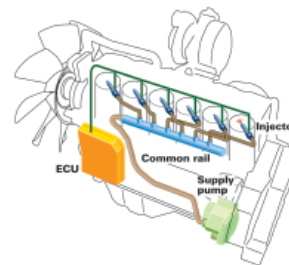
Cooled Exhaust Gas Recirculation (EGR)

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 - Road Builder

The PC390LL-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 PC390LL-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator's demands.

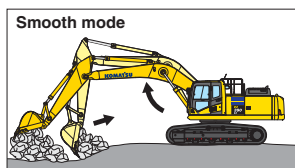
The PC390LL-10 also introduces new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

Reduced Up To 10% Fuel consumption

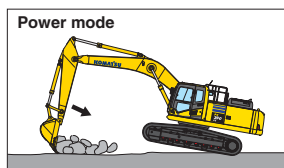
vs PC350HD-8
Based on typical work pattern collected via KOMTRAX

Two Boom Mode Settings - Road Builder

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 PC390LL-10 uses a large high and wide undercarriage design that increases overside lift capacity and improves lateral stability, especially for applications that require long reach or heavy attachments.

Large Maximum Drawbar Pull

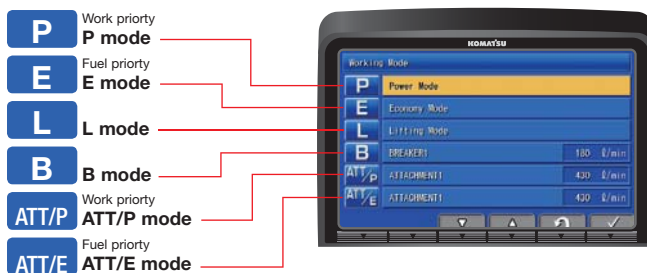
Provides excellent maneuverability and shovel logging performance

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

Working Mode Selection

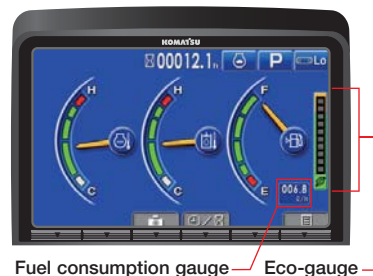
The PC390LL-10 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC390LL-10 features a new mode (ATT/E) which allows operators to run attachments while in Economy mode.

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



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 lower fuel consumption and more 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.



High Efficiency Fuel Filter with a Fuel Pre-filter (With Water Separator)

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

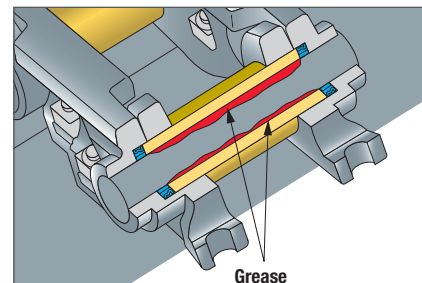
Exclusively designed electronic devices have passed severe testing.

- Controllers
- Sensors
- Connectors
- Heat Resistant Wiring



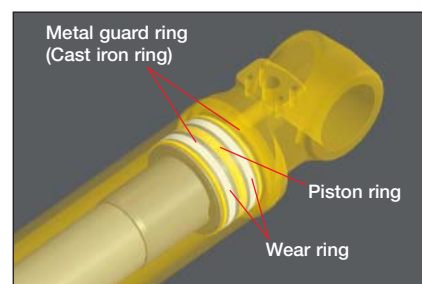
Grease Sealed Track

The PC390LL-10 uses grease sealed tracks for extended undercarriage life.



Metal Guard Rings

The PC390LL-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 Forestry Undercarriage

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



Protective Forest Debris Screens

Engine hood, side access door and exhaust outlet cover screens provide added engine protection.



WORKING ENVIRONMENT

KOMATSU FORESTRY CAB FEATURES & BENEFITS



Komatsu ROPS/OPS/FOPS/TOPS/FOG/WCB/ Oregon OSHA Certified Forestry 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
- Cab Risers

The cab is available with 7" fixed riser or 48" hydraulic tilt cab riser.

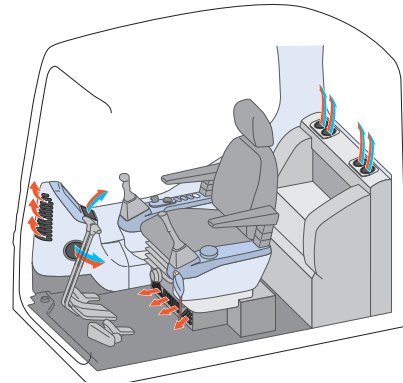


Low Cab Noise

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 & Heater

The automatic air conditioner & heater 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.

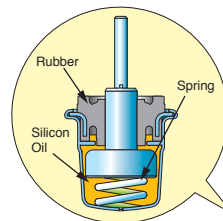


Pressurized Cab

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 Floor Mounts

The PC390LL-10 uses viscous mounts for the seat platform 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 or satellite radio receiver to the auxiliary input, the operator can hear the sound through the speakers installed in the cab.



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT



Large 7" 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

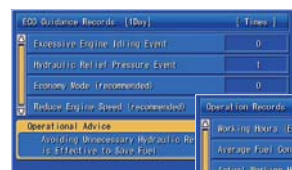
The monitor panel provides operational advice to the operator to help improve machine efficiency and lower fuel consumption. The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption Logs.



ECO Guidance



ECO Guidance menu



ECO Guidance Records



Operation Records



Average Fuel Consumption Logs

Improved Attachment Control

The PC390LL-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.



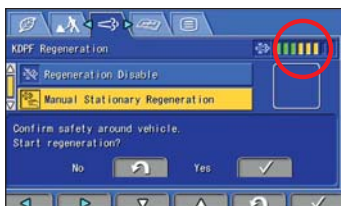
Attachment Setting Screen



Attachment Flow Screen

KDPF Condition Monitor

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



Special Forestry KDPF Regeneration

When the machine requires KDPF regeneration, a manual stationary regeneration icon appears. Manual stationary regeneration allows the operator to select a time and location of his choosing to initiate the regeneration process.



Easier Engine Access

Engine maintenance is made easier with a new platform.



Sloped Track Frame

Reduces dirt and sand accumulation while allowing easier 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.



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

Engine Debris Screens

Engine debris screens are easily removed and cleaned (without the need for tools).



Gas Assisted Engine Hood Damper Cylinders

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

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.

Equipment Management Monitoring System (EMMS)

The PC390LL-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.



Thermal Protective Covers

Thermal protective covers for variable geometry turbocharger and diesel particulate filter.



Handrails

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



Fan Guards

Fan guards are placed around parts of the engine and fan drive.



Working Lights

Standard work light package includes: (4) cab front top, (2) cab rear top, (1) cab left side, (1) right hand box, (2) boom, and (1) front of optional 48" cab riser.



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.



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.



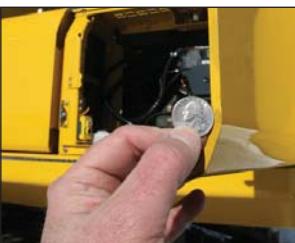
Tilting Cab Riser

Optional 48" riser has a hydraulic cab tilt feature to reduce transport height. Operates with a convenient remote control from ground level.



Compartment Covers

Rear compartment doors/covers are more than 3 times thicker and door hinges are stronger than on comparably-sized excavators.



KOMTRAX EQUIPMENT WORKING ENVIRONMENT MONITORING

GET THE WHOLE STORY WITH
KOMTRAX®

✓ WHAT

KOMTRAX is Komatsu's remote equipment monitoring and management system

- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **aids in making repair or replacement decisions**

✓ WHEN

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

✓ WHERE

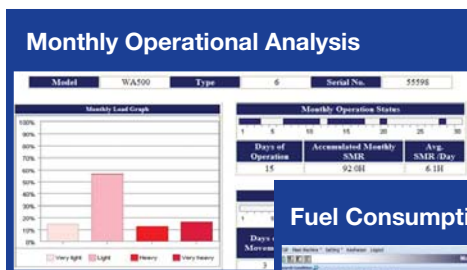
- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ WHY

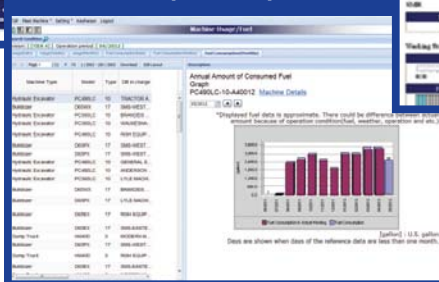
- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere

✓ WHO

- KOMTRAX is **standard** equipment on all Komatsu Log Loader Forestry products



Fuel Consumption Reports



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus

For production and mining class machines.

KOMATSU PARTS & SERVICE SUPPORT



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

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D114E-5*
 Type.....Water-cooled, 4-cycle, direct injection
 Aspiration.....Turbocharged, aftercooled, cooled EGR
 Number of cylinders.....6
 Bore / Stroke.....114 mm **4.49"** / 144.5 mm **5.69"**
 Piston displacement.....8.85 ltr **540 in³**
 Horsepower: SAE J1995.....Gross 202 kW **271 HP**
 ISO 9249 / SAE J1349.....Net 192 kW **257 HP**
 Rated rpm.....1950
 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.....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 kg/cm² **5,400 psi**
 Travel circuit.....37.3 MPa 380 kg/cm² **5,400 psi**
 Swing circuit.....27.9 MPa 285 kg/cm² **4,050 psi**
 Pilot circuit.....3.2 MPa 33 kg/cm² **470 psi**
 Service valve.....21.6 MPa 220 kg/cm² **3,129 ps**

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

	Road Builder	Log Loader
Boom (2)	140mm x 1480mm x 100mm 5.5" x 58.3" x 3.9"	160mm x 1429mm x 100mm 6.3" x 56.3" x 4.33"
Arm (1)	160 mm x 1825 mm x 110 mm 6.3" x 71.9" x 4.3"	200 mm x 1625 mm x 140 mm 7.87" x 64.0" x 5.51"
Bucket (1)	140 mm x 1285 mm x 100 mm 5.5" x 50.6" x 3.9"	160 mm x 1133 mm x 100 mm 6.3" x 44.6" x 3.9"

Service valve maximum flow:

First valve535 ltr 141 U.S. gal
Second valve250 ltr 66 U.S. gal



DRIVES AND BRAKES

Steering control.....Two levers with pedals
 Drive method.....Hydrostatic
 Maximum drawbar pull.....329 kN 33510 kg **73,880 lb**
 Gradeability.....70%, 35°
 Maximum travel speed: High.....5.5 km/h **3.4 mph**
 (Auto-Shift) Mid.....4.4 km/h **2.7 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.....7.5 rpm
 Swing torque.....13414 kg•m **97,024 ft lbs**



UNDERCARRIAGE

Center frame.....X-frame
 Track frame.....Box-section
 Seal of track.....Sealed track
 Track adjuster.....Hydraulic
 Number of shoes (each side).....46
 Number of carrier rollers (each side).....2
 Number of track rollers (each side).....7



COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank.....605 ltr **159.8 U.S. gal**
 Coolant.....37 ltr **9.7 U.S. gal**
 Engine.....35 ltr **9.2 U.S. gal**
 Final drive, each side.....10.5 ltr **2.77 U.S. gal**
 Swing drive.....20 ltr **5.3 U.S. gal**
 Hydraulic tank.....188 ltr **49.7 U.S. gal**
 Hydraulic system.....365 ltr **96.4 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Log Loader:

Includes: high-wide track frame, 700 mm double grouser shoes, Forestry cab with 48" riser, Komatsu 42" live heel logging boom, heavy counterweight, battery box guard, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Road Builder:

Includes: Forestry cab with 7" riser, 700mm double grouser shoes 6500 mm 21'3" one-piece HD boom, 3185 mm 10'5" arm, 1.4m³ (1.8yd³) bucket, heavy counterweight, battery box guard, rated capacity of lubricants, coolant, full fuel tank; operator, and standard equipment.

Configuration	Operating Weight	Ground Pressure
Log Loader	48,500 kg 106,920lb	0.79 kg/cm2 11.24 psi
Road Builder	46,900 kg 103,400 lb	0.77 kg/cm2 10.95 psi



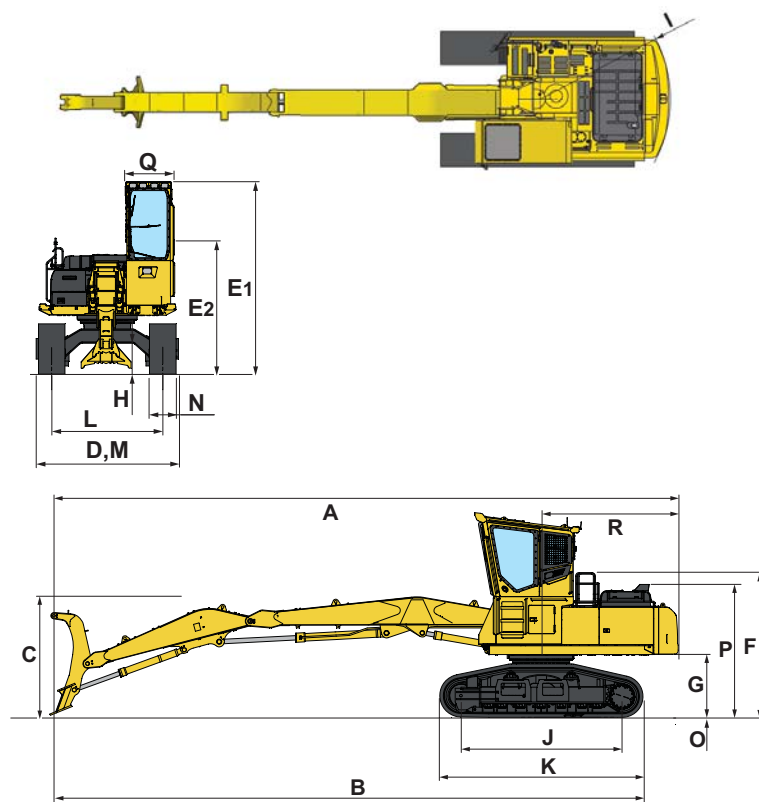
DIMENSIONS - LOG LOADER

	Live Heel	12,800 mm	42'
A	Overall length	15,601 mm	51'2"
B	Length on ground (transport)	14,725 mm	48'4"
C	Overall height (to top of boom)*	3,487 mm	11'5"
D	Overall width	3,754 mm	12'4"
E1	Overall height (to top of cab upright)* +	4,951 mm	16'3"
E2	Overall height (to top of cab tilted)*	3,487 mm	11'5"
F	Overall height (to top of handrail)*	3,555 mm	11'8"
G	Ground clearance, counterweight	1,467.5 mm	4'10"
H	Ground clearance, minimum	773 mm	2'6"
I	Tail swing radius	3,441 mm	11'3"
J	Track length on ground	3,996 mm	13'1"
K	Track length	5,004 mm	16'7"
L	Track gauge	2,932 mm	9'7"
M	Width of crawler	3,632 mm	11'11"
N	Shoe width	700 mm	2'4"
O	Grouser height	46 mm	1.8"
P	Engine hood height	3,257 mm	10'8"
Q	Machine cab width **	3,610 mm	11'10"
R	Distance, swing center to rear end	3,403 mm	11'2"

* : Including grouser height

+ : without light bar

** : Including handrail



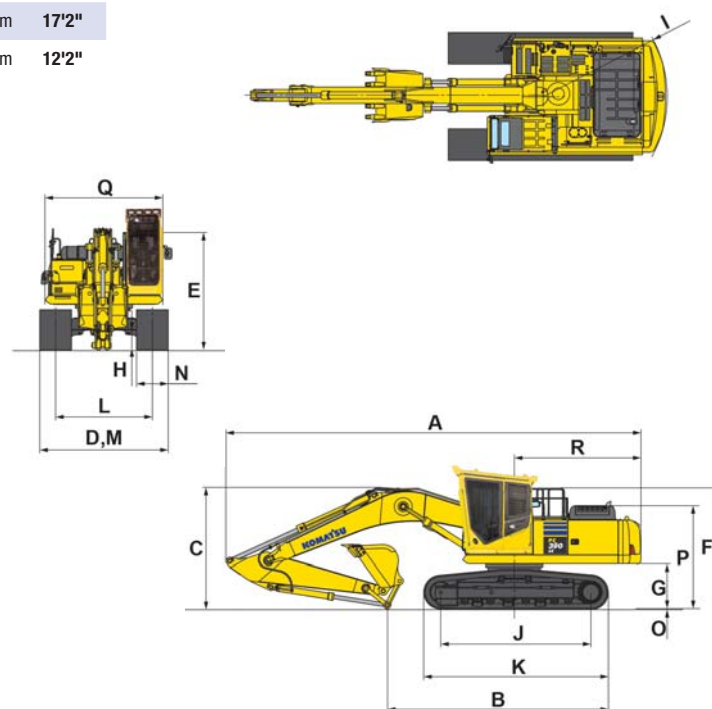
DIMENSIONS - ROAD BUILDER

	Arm Length	3185 mm	10'5"	4020 mm	13'2"
A	Overall length	11,027 mm	36'2"	11,610 mm	36'8"
B	Length on ground (transport)	5,711 mm	18'9"	5,220 mm	17'2"
C	Overall height (to top of boom)*	3,297 mm	10'10"	3,695 mm	12'2"
D	Overall [crawler] width	3,754 mm	12'4"		
E	Overall height (to top of cab)* +	3,931 mm	12'11"		
F	Overall height (to top of handrail)*	3,555 mm	11'8"		
G	Ground clearance, counterweight	1,467.5 mm	4'10"		
H	Ground clearance, minimum	773 mm	2'6"		
I	Tail swing radius	3,445 mm	11'4"		
J	Track length on ground	3,996 mm	13'1"		
K	Track length	5,004 mm	16'7"		
L	Track gauge	2,932 mm	9'7"		
M	Width of crawler	3,632 mm	11'1"		
N	Shoe width	700 mm	2'4"		
O	Grouser height	37 mm	1.5"		
P	Engine hood height	3,245 mm	10'8"		
Q	Machine cab width **	3,610 mm	11'10"		
R	Distance, swing center to rear end	3,403 mm	11'2"		

* : Including grouser height

+ : without light bar

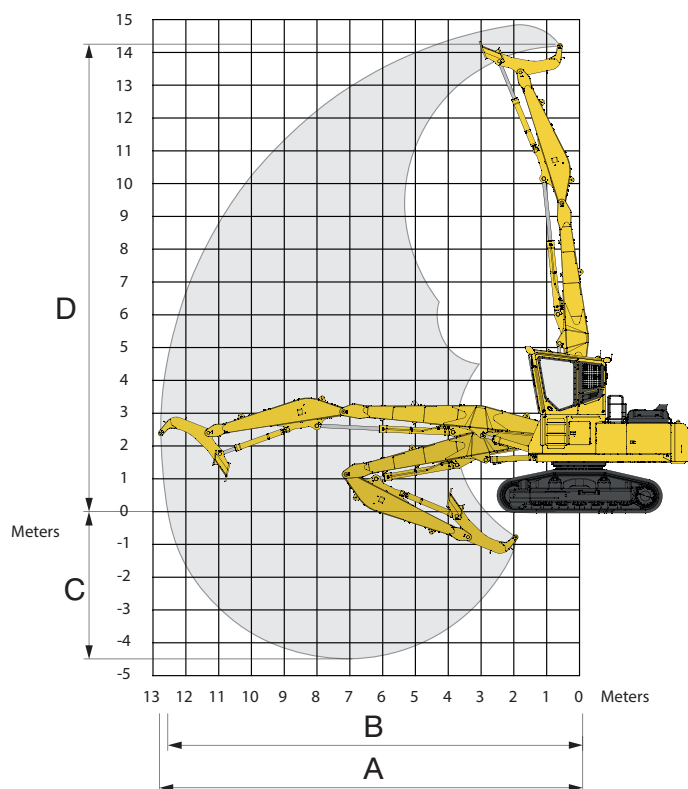
** : Including handrail



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT



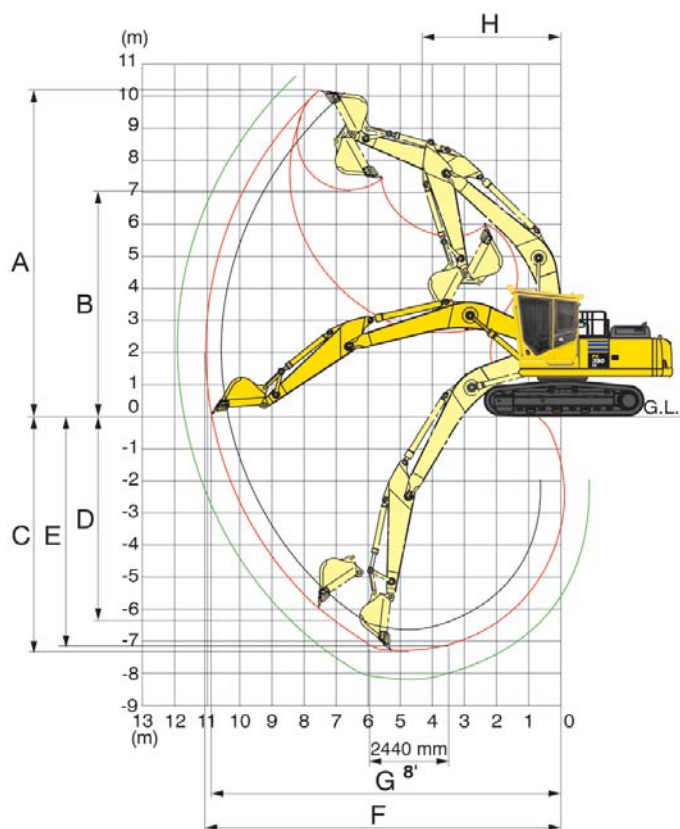
LOG LOADER WORKING RANGE



	Live Heel	12,800 mm	42'0"
A	Max reach	12,767 mm	41'11"
B	Max reach at ground level	12,544 mm	41'2"
C	Max below grade depth	4,546 mm	14'11"
D	Max above grade height	14,838 mm	48'8"



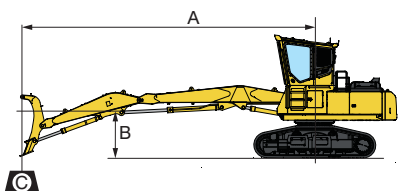
ROAD BUILDER WORKING RANGE



	Arm Length	3185 mm	10'5"	4020 mm	13'2"
A	Max. digging height	10,412 mm	34'2"	10,875 mm	35'8"
B	Max. dumping height	7,378 mm	24'2"	7,820 mm	25'8"
C	Max. digging depth	7,045 mm	23'2"	7,875 mm	25'10"
D	Max. vertical wall digging depth	6,145 mm	20'2"	7,740 mm	25'5"
E	Max. digging depth, 8' level bottom	6,845 mm	22'5"	6,975 mm	22'10"
F	Max. digging reach	11,080 mm	36'4"	11,895 mm	39'0"
G	Max. digging reach at ground level	10,825 mm	35'6"	11,655 mm	38'3"
H	Min. swing radius	4,320 mm	14'2"	4,320 mm	14'2"
SAE rating	Bucket digging force at power max.	200 kN	44,970 lb	200 kN	44,970 lb
	Arm crowd force at power max.	165 kN	37,040 lb	139 kN	31,310 lb
ISO rating	Bucket digging force at power max.	227 kN	51,150 lb	227 kN	50,930 lb
	Arm crowd force at power max.	171 kN	38,360 lb	144 kN	32,410 lb



LIFTING CAPACITY WITH LIFTING MODE - LOG LOADER



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: Komatsu 42' Live Heel
- Grapple: None
- Lifting mode: On
- Counterweight: Heavy
- Cab: Komatsu forestry with 48" riser

Arm: Komatsu 42' Live Heel

Shoes: 700 mm 28" - Double Grouser

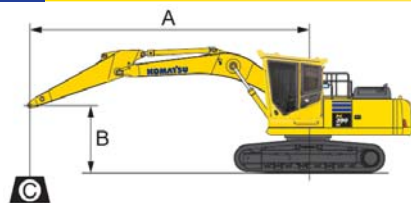
Unit: kg lb

B	6.11 m 20'		7.61 m 25'		9.11 m 30'		10.71 m 35'		12.2 m 40'		MAX Reach	⊗ MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		Cf	Cs
12.2 m	13,800	13,800	12,550	10,900							8.0	11,000	9,900
40'	* 30,450	* 30,450	* 27,700	24,050							26'	* 24,250	21,850
10.7 m	12,950	12,950	11,700	11,250	10,800	8,250					9.6	9,500	7,500
35'	* 28,650	* 28,650	* 25,900	24,850	* 23,850	18,250					32'	* 20,950	16,550
9.1 m			11,550	11,350	10,500	8,450	8,500	6,400			10.8	8,350	6,300
30'			* 25,450	25,050	* 23,200	18,600	18,800	14,150			35'	18,450	13,900
7.6 m	13,200	13,200	11,750	11,300	10,550	8,450	8,650	6,500			11.6	7,450	5,550
25'	* 29,150	* 29,150	* 25,900	24,900	* 23,300	18,600	19,050	14,400			38'	16,450	12,300
6.1 m	14,150	14,150	12,250	11,100	10,800	8,350	6,600	6,500			12.2	6,900	5,150
20'	* 31,250	* 31,250	* 27,050	24,500	* 23,800	16,400	19,000	14,350			40'	15,200	11,050
4.6 m	15,500	15,250	12,950	10,800	10,850	8,150	8,500	6,400	6,900	5,150	12.6	6,550	4,900
15'	* 34,250	33,650	* 28,600	23,850	23,900	18,050	18,800	14,150	15,200	11,350	41'	14,450	10,800
3.0 m	16,950	14,550	13,650	10,450	10,600	7,950	8,400	6,300	6,850	5,100	12.7	6,400	4,750
10'	* 37,350	32,150	* 30,100	23,050	23,450	17,600	18,550	13,950	15,150	11,300	42'	14,100	10,500
1.5 m	17,800	13,900	13,600	10,100	10,400	7,750	8,300	6,200	6,800	5,050	12.7	6,150	4,750
5'	* 39,300	30,750	30,050	22,300	22,950	17,150	18,300	13,700	15,050	11,200	42'	* 13,600	10,500
0 m	17,700	13,450	13,300	9,800	10,200	7,600	8,200	6,100	6,450	5,050	12.5	5,350	4,850
0'	* 39,100	29,650	29,350	21,650	22,550	16,750	18,100	13,450	* 14,250	11,150	41'	* 11,850	10,750
-1.5 m	16,400	13,150	12,900	9,600	10,100	7,500	7,850	6,050					
-5'	* 36,200	29,000	* 28,400	21,250	22,300	16,500	* 17,300	13,350					
-3 m	13,800	13,050	10,950	9,550	8,450	7,450	5,800	5,800					
-10'	* 30,500	28,650	* 24,200	21,100	* 16,700	16,450	* 12,600	* 12,600					

*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 - ROAD BUILDER



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: 21'3" 6500 mm one piece
- Bucket: 1.4 m³, 997 kg
- Lifting mode: On
- Counterweight: Heavy
- Cab: Komatsu forestry with 7" riser

Arm: 3185 mm 10'5"

Shoes: 700 mm 28" - Double Grouser

Unit: kg lb

B	3.01 m 10'		4.61 m 15'		6.11 m 20'		7.61 m 25'		9.11 m 30'		Max Reach	⊗ MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		Cf	Cs
7.6 m							6,350	6,350			7.8	5,400	5,400
25'							* 14,000	* 14,000			25'	* 11,950	* 11,950
6.1 m							7,150	7,150			8.6	5,300	5,300
20'							* 15,750	* 15,750			28'	* 11,750	* 11,750
4.6 m			12,250	12,250	9,250	9,250	7,700	7,700			9.1	5,500	5,500
15'			* 27,000	* 27,000	* 20,500	* 20,500	* 17,000	* 17,000			30'	* 12,100	* 12,100
3.0 m			14,950	14,950	10,600	10,600	8,350	8,350	7,000	6,850	9.4	5,850	5,850
10'			* 33,050	* 33,050	* 23,400	* 23,400	* 18,500	* 18,500	* 15,500	* 15,150	31'	* 12,950	* 12,950
1.5 m			16,500	16,500	11,600	11,600	8,900	8,900	7,200	6,750	9.4	6,650	6,500
5'			* 36,400	* 36,400	* 25,550	* 25,550	* 19,650	* 19,650	* 15,650	14,900	31'	* 14,400	14,300
0 m	6,550	6,550	16,550	16,550	11,900	11,900	9,100	8,900			9.1	7,050	6,750
0'	* 14,500	* 14,500	* 36,450	* 36,450	* 26,300	* 26,300	* 20,050	19,650			30'	* 15,600	14,900
-1.5 m	13,450	13,450	15,500	15,500	11,450	11,450	8,650	8,650			8.6	7,100	7,100
-5'	* 29,750	* 29,750	* 34,150	* 34,150	* 25,300	* 25,300	* 19,100	* 19,100			28'	* 15,700	* 15,700
-3.0 m	12,650	12,650	13,400	13,400	10,050	10,050	7,100	7,100			7.78	7,000	7,000
-10'	* 38,950	* 38,950	* 29,550	* 29,550	* 22,200	* 22,200	* 15,700	* 15,700			25'	* 15,450	* 15,450
-4.6 m	12,350	12,350	9,700	9,700	6,750	6,750					6.3	6,300	6,300
-15'	* 27,250	* 27,250	* 21,450	* 21,450	* 14,750	* 14,750					21'	* 13,950	* 13,950

*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

- Air cleaner, Dry type, double element
- Alternator, 60 Ampere, 24 V
- AM/FM radio
- Automatic air conditioner/heater
- Automatic engine warm-up system
- Auxiliary input (3.5mm jack)
- Batteries, large capacity (2 x 12V / 150 AH)
- Battery disconnect switch
- Boom and arm holding valves (for excavator applications)
- Converter, 24 V to 12 V
- Counterweight, 7090 kg **15,631 lb**
- Electric horn
- EMMS monitoring system
- Engine doors, HD (6mm)
- Engine, Komatsu SAA6D114E-5
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Forest debris screens, removeable for cleaning
- Fuel system pre-cleaner 10 micron
- High back air suspension seat, with heat
- High-wide forestry undercarriage
- High pressure in-line hydraulic filters
- Hydraulic track adjusters
- Grip strut walkways
- KDPF insulation wrap and heat shields
- KOMTRAX® Level 4.0
- Large 177mm **7"** LCD color monitor, high resolution
- Lock lever
- Mirrors, (Rearview, LH and RH)
- 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 undercovers, HD (9mm)
- Seat belt indicator
- Seat belt, retractable, 76 mm **3"**
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 700mm **28"**
- Slip resistant foot plates
- Starter motor, (11kW)
- Suction fan
- Swivel guard, HD
- Thermal and fan guards
- Travel alarm
- Working light: 1 on right hand box
- Working mode selection system



OPTIONAL EQUIPMENT

- Arm holding valve
- Arms
 - 3185 mm **10'5"** arm assembly
 - 3185 mm **10'5"** arm assembly with 1 actuator piping
 - 4020 mm **13'2"** arm assembly
 - 4020 mm **13'2"** arm assembly with 1 actuator piping
- Battery box guard, RH
- Booms
 - 6500 mm **21'3"** HD boom assembly
 - 6500 mm **21'3"** HD boom assembly with 1 actuator piping
 - Live heel logging boom, 12800 mm **42'**
- Boom cylinders only
- Cab arrangements
 - Forestry cab, Komatsu ROPS/OPS/FOPS/TOPS/FOG/WCB/Oregon OSHA Certified Forestry Cab with 177mm **7"** fixed riser and 7 working lights
 - Forestry cab, Forestry cab, Komatsu ROPS/OPS/FOPS/TOPS/FOG/WCB/Oregon OSHA Certified Forestry Cab with 1220 mm **48"** tilting riser and 8 working lights
 - Temporary shipping shell on "stilts"
- Counterweight 8105 kg **17,868 lb**
- Flow control and spool limiters
- Forestry Grapples: 58" or 60" opening
- Shoes
 - double grouser, 700 mm **28"**
 - triple grouser, 800 mm **31.5"**
- Soft swing
- Straight travel system, single pedal

KOMATSU®

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