Hydraulic Excavator

PC490LC-11
Tier 4 Final Engine

Photos may include optional equipment.

**NET HORSEPOWER**
359 HP @ 1900 rpm
268 kW @ 1900 rpm

**OPERATING WEIGHT**
105,670–110,220 lb
47,930–49,995 kg

**BUCKET CAPACITY**
1.47–4.15 yd³
1.12–3.17 m³
WALK-AROUND

PC490LC-11

Photos may include optional equipment.

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268 kW @ 1900 rpm

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BUCKET CAPACITY
1.47–4.15 yd³
1.12–3.17 m³
PERFORMANCE, DURABILITY AND FUEL ECONOMY

A large machine design with a reinforced undercarriage provides high lift capacity, lateral stability and added durability.

Enhanced Power Mode with increased hydraulic flow for improved digging speed and multifunction operation under high load conditions.

A powerful Komatsu SAA6D125E-7 engine provides a net output of 268 kW 359 HP. This engine is EPA Tier 4 Final emissions certified.

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

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

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

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

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

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

Large LCD color monitor panel:
• 7” high resolution screen
• Provides "Ecology-Guidance" for fuel efficient operation
• Enhanced attachment control

Rearview monitoring system (standard)

Six working modes are designed to match engine speed, pump delivery, and system pressure to the application. An enhanced power mode is available to provide improved performance in high production applications.

Rearview monitoring system (standard)

Enhanced working environment
• High back, heated air suspension operator seat with adjustable arm rests
• Integrated ROPS cab design
• Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard
• Standard pattern change valve to switch from ISO to BH control pattern
• Aux jack and (2) 12V power outlets

Komatsu designed and manufactured components

Hydraulically driven variable speed fan is temperature controlled to reduce parasitic load on the engine to improve fuel consumption and can be manually reversed to simplify cooler maintenance.

Handrails (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.

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

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

Operator Identification System can track machine operation for more than 25 operators.
New Tier 4 Final Engine
The Komatsu SAA6D125E-7 engine is EPA Tier 4 Final emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogen oxides (NOx) by more than 80% when compared to Tier 4 interim levels. Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.

Technologies Applied to New Engine

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

Heavy-duty cooled Exhaust Gas Recirculation (EGR) system
The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system achieves a dynamic reduction of NOx, while helping reduce fuel consumption below Tier 4 Interim levels.

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

Variable Geometry Turbocharger (VGT) system
The VGT system features proven Komatsu design hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.
Komatsu Auto Idle Shutdown
Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The amount of time before the engine is shutdown can be easily programmed from 5 to 60 minutes.

Heavy-Duty High-Pressure Common Rail (HPCR) Fuel Injection System
The system is designed to achieve an optimal injection of high-pressure fuel by means of computerized control, providing close to complete combustion to reduce PM emissions. While this technology is already used in current engines, the new system uses high pressure injection, thereby reducing both PM emissions and fuel consumption over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced fuel consumption and lower soot levels.
PERFORMANCE FEATURES

Enhanced Productivity
The PC490LC-11’s enhanced P Mode provides more hydraulic flow and increases productivity.

Increased Work Efficiency
Large digging force
With the one-touch Power Max. function digging force has been further increased. (8.5 seconds of operation)

| Maximum arm crowd force (ISO) | 200 kN(20.4t) ✅ 214 kN(21.8t) 7% UP |
|                              | (with Power Max.) |

| Maximum bucket digging force (ISO) | 256 kN(26.1t) ✅ 275 kN(28.0t) 7% UP |
|                                    | (with Power Max.) |

Measured with Power Max. function, 3380 mm arm and ISO rating

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

Two boom mode settings for boom function
• Smooth boom mode provides easy operation for gathering material or scraping down.
• Power boom mode maximizes digging force for more effective excavating.

Productivity
Up to 15% increase
(compared to the PC490LC-10 in standard P Mode)

P mode (90° swing and loading onto truck)

1. Large counterweight
2. High capacity swing bearing
3. Reinforced track links and shoes
4. Large final drive
5. HD sprockets
6. Reinforced center frame
7. HD carrier rollers and idlers
8. Reinforced crawler frames
9. Reinforced revolving frame
10. Track roller guards
11. Deck guard
12. Center frame swivel guard

- Large digging force
- Maximum arm crowd force (ISO)
- Maximum bucket digging force (ISO)
- Faster arm cycle speeds
- Two boom mode settings for boom function
- Smooth boom mode provides easy operation for gathering material or scraping down.
- Power boom mode maximizes digging force for more effective excavating.
Hydraulic Variable Speed Fan
The electronic control system sets the rotation speed of the cooling fan according to the coolant, hydraulic oil, and ambient temperatures; effectively uses the engine output to reduce wasteful fuel consumption; and reduces noise during low-speed fan operation.

Variable Track Gauge (option)
Lateral stability is significantly increased when operating with the gauge extended (compared to fixed gauge). With track frames retracted, overall width complies with many local transportation regulations.

Working Mode Selection
The PC490LC-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Power Mode provides improved hydraulic power and faster cycle times for improved performance in demanding applications. Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC490LC-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

<table>
<thead>
<tr>
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<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Power mode</td>
<td>• Maximum production, power, and multifunction</td>
</tr>
<tr>
<td>E</td>
<td>Economy mode</td>
<td>• Good cycle times with reduced fuel consumption</td>
</tr>
<tr>
<td>L</td>
<td>Lifting mode</td>
<td>• Increased lifting power and fine control</td>
</tr>
<tr>
<td>B</td>
<td>Breaker mode</td>
<td>• One way flow for breaker operation</td>
</tr>
<tr>
<td>ATT/P</td>
<td>Attachment Power mode</td>
<td>• Two way flow with maximum power</td>
</tr>
<tr>
<td>ATT/E</td>
<td>Attachment Economy mode</td>
<td>• Two way flow with most efficient fuel economy</td>
</tr>
</tbody>
</table>

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

High Rigidity Work Equipment
Booms and arms are constructed with thick plates of high tensile strength steel. In addition, these structures are designed with large cross sectional areas and large one piece castings in the boom foot, the boom tip, and the arm tip. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress. A standard HD boom design provides increased strength and reliability.
Comfortable Working Space

Wide spacious cab
The wide spacious cab includes a heated air suspension seat with reclining backrest. The seat height and position are easily adjusted using a pull-up lever. The armrest position is easily adjusted together with the console. Reclining the seat further enables it to be fully laid back with the headrest attached.

Arm rest with simple height adjustment function
A plunger and lock permits simple and fast adjustments for arm rest height.

Low vibration with cab damper mounting

Automatic climate control

Pressurized cab

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

Standard Equipment

- Sliding window glass (left side)
- Lockout Tagout Ready
- Remote intermittent wiper with windshield washer
- Tie Off Points Standard (ISO 14567)
- Opening & closing skylight
- Magazine box & cup holder
- Defroster (conforms to the ISO standard)
- Front lower window glass storage
Switchable Display Modes
The main screen display mode can be changed by pressing the pressing the F3 key.

Visual user menu
Pressing the F6 key on the main screen displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated easily.
Support Efficiency Improvement

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

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

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

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

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

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

Easy cleaning of cooling unit
Reverse-rotation function of the hydraulic driven fan facilitates cleaning of the cooling unit.

Fuel pre-filter with water separator

Electric fuel priming pump

High efficiency fuel filter with water separator

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

Cab air filter
Washable cab floormat
Sloping track frame
**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.

<table>
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<th>Replacement Interval</th>
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</thead>
<tbody>
<tr>
<td>Engine oil &amp; Engine oil filter</td>
<td>every 500 hours</td>
</tr>
<tr>
<td>Hydraulic oil</td>
<td>every 5000 hours</td>
</tr>
<tr>
<td>Hydraulic oil filter</td>
<td>every 1000 hours</td>
</tr>
</tbody>
</table>

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

**Diesel Exhaust Fluid (DEF) tank**  
A large tank volume extends operating time before refilling and installed on the right front stairway for ease of access. A DEF level sight glass and separated pump provide excellent serviceability.

**Maintenance Information**

"Maintenance time caution lamp" display  
When the remaining time to maintenance becomes less than 30 hours*, a maintenance time monitor appears. Pressing the F6 key switches the monitor to the maintenance screen.  
* : The setting can be changed within the range between 10 and 200 hours.

**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.

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

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

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Maintenance screen

Soot level indicator

Aftertreatment device regeneration screen

DEF level gauge

DEF low level guidance

Waterproof seal

PC490LC-11
GENERAL FEATURES

ROPS CAB STRUCTURE

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

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

Low Vibration with Viscous Cab Mounts
The PC490LC-11 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator’s seat.
KOMTRAX EQUIPMENT MONITORING

✓ WHAT
  ▪ KOMTRAX is Komatsu’s remote equipment monitoring and management system
  ▪ KOMTRAX continuously monitors and records machine health and operational data
  ▪ Information such as fuel consumption, utilization, and a detailed history lowering owning and operating cost

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

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

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

✓ WHO
  ▪ KOMTRAX is standard equipment on all Komatsu construction products

For production and mining class machines.

For construction and compact equipment.
KOMATSU CARE
Program Includes:
*The PC490LC-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever occurs first.

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

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

Complimentary KDPF Exchange
The PC490LC-11 comes standard with 2 Complimentary KDPF Exchange units for the first 5 Years or 9000 hours whichever occurs first. The suggested KDPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the KDPF.

Complimentary SCR Maintenance
The PC490LC-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever occurs first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

### Interval PM

| KOWA SAMPLING (Engine, Hydraulics, Swing Circle, L & R Final Drives) | ✓ | ✓ | ✓ | ✓ |
| LUBRICATE MACHINE | ✓ | ✓ | ✓ | ✓ |
| LUBRICATE SWING CIRCLE | ✓ | ✓ | ✓ | ✓ |
| CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY | ✓ | ✓ | ✓ | ✓ |
| CHANGE ENGINE OIL | ✓ | ✓ | ✓ | ✓ |
| REPLACE ENGINE OIL FILTER | ✓ | ✓ | ✓ | ✓ |
| REPLACE FUEL PRE-FILTER | ✓ | ✓ | ✓ | ✓ |
| REPLACE HYDRAULIC OIL FILTER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| CLEAN AIR CLEANER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| DRAIN SEDIMENT FROM FUEL TANK | ✓ | ✓ | ✓ | ✓ |
| COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB | ✓ | ✓ | ✓ | ✓ |
| RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS | ✓ | ✓ | ✓ | ✓ |
| REPLACE HYDRAULIC TANK BREATHER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| CHECK OIL LEVEL IN DAMPER CASE; ADD WHEN NECESSARY | ✓ | ✓ | ✓ | ✓ |
| REPLACE MAIN FUEL FILTER | ✓ | ✓ | ✓ | ✓ |
| REPLACE HYDRAULIC OIL FILTER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| REPLACE AdBlue®/DEF TANK BREATHER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| REPLACE ADDITIONAL HYDRAULIC OIL FILTER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| CHANGE SWING MACHINERY OIL | ✓ | ✓ | ✓ | ✓ |
| CLEAN HYDRAULIC TANK STRAINER (REPLACE O-RING) | ✓ | ✓ | ✓ | ✓ |
| REPLACE KCCV FILTER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| REPLACE AdBlue®/DEF FILTER ELEMENT | ✓ | ✓ | ✓ | ✓ |
| CHANGE FINAL DRIVE OIL | ✓ | ✓ | ✓ | ✓ |
| FACTORY TRAINED TECHNICIAN LABOR | ✓ | ✓ | ✓ | ✓ |

2 KDPF Exchanges suggested at 4,500 Hrs and 9,000 Hrs.
2 SCR System Maintenance Services suggested at 4,500 Hrs. and 9000 Hrs.

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

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

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

*Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2019 Komatsu America Corp.
SPECIFICATIONS

**ENGINE**

Model.................................................. Komatsu SAA6D125E-7
Type.............................................. Water-cooled, 4-cycle, direct injection
Aspiration................................. Variable Geometry Turbocharger
with air-to-air aftercooled EGR
Number of cylinders.............................................. 6
Piston displacement........................................... 11.04 ltr

**HYDRAULICS**

Type ................................ HydraulMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valve and pressure compensated valves, 6 selectable working modes
Main pump:
Pumps for .......... Boom, arm, bucket, swing, and travel circuits
Type................................. Variable displacement axial piston type
Maximum flow............... 780 ltr/min 206 gal/min

**UNDERCARRIAGE**

Center frame........................................ X-frame
Track frame........................................ Box-section
Track type........................................ Sealed
Track adjuster .......................................... Hydraulic
Number of shoes (each side)........................... 49
Number of carrier rollers (each side).................... 2
Number of track rollers (each side)........................ 8

**COOLANT & LUBRICANT CAPACITY**

Fuel tank........................................... 650 ltr 172 U.S. gal
Radiator ............................................. 47.0 ltr 12.4 U.S. gal
Engine ............................................... 38 ltr 10.0 U.S. gal
Final drive, each side.............................. 11.0 ltr 2.9 U.S. gal
Swing drive ........................................... 20.8 ltr 5.3 U.S. gal
Hydraulic tank ...................................... 248 ltr 65.5 U.S. gal
Diesel Exhaust Fluid (DEF) tank .......... 39 ltr 10.3 U.S. gal

**Operating Weight (Approximate)**

Operating weight includes 7060 mm 23’2” one-piece HD boom, 3380 mm 11’1” arm, SAE haped 2.25 m2 2.94 yd3 bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

<table>
<thead>
<tr>
<th>Component</th>
<th>Fixed Gauge</th>
<th>Variable Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Operating Weight</td>
<td>Ground Pressure (ISO 16754)</td>
</tr>
<tr>
<td></td>
<td>Operating Weight</td>
<td>Ground Pressure (ISO 16754)</td>
</tr>
<tr>
<td>700 mm 28°</td>
<td>47930 kg 0.73 kg/cm²</td>
<td>49005 kg 0.74 kg/cm²</td>
</tr>
<tr>
<td>700 mm 31.5°</td>
<td>48430 kg 0.64 kg/cm²</td>
<td>49505 kg 0.66 kg/cm²</td>
</tr>
<tr>
<td>700 mm 35.5°</td>
<td>48920 kg 0.58 kg/cm²</td>
<td>49995 kg 0.59 kg/cm²</td>
</tr>
<tr>
<td>900 mm 28°</td>
<td>105670 lb 10.33 psi</td>
<td>108040 lb 10.57 psi</td>
</tr>
<tr>
<td>900 mm 31.5°</td>
<td>106770 lb 9.14 psi</td>
<td>109140 lb 9.34 psi</td>
</tr>
<tr>
<td>900 mm 35.5°</td>
<td>107550 lb 9.2 psi</td>
<td>110220 lb 9.38 psi</td>
</tr>
</tbody>
</table>

**SOUND PERFORMANCE**

Exterior – ISO 6395................................. 105 dB(A)
Interior – ISO 6396................................. 76 dB(A)

**SWING SYSTEM**

Driven by....................................... Hydraulic motor
Swing reduction................................. Planetary gear
Swing circle lubrication......................... Grease-bathed
Service brake ........................................ Hydraulic lock
Holding brake/Swing lock......................... Mechanical disc brake
Swing speed........................................ 9.0 rpm
Swing torque........................................ 13414 kg-m 97,024 ft lbs

**DRIVES AND BRAKES**

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

<table>
<thead>
<tr>
<th>Speed</th>
<th>High</th>
<th>Mid</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>km/h</td>
<td>5.5</td>
<td>4.2</td>
<td>3.0</td>
</tr>
<tr>
<td>mph</td>
<td>3.4</td>
<td>2.6</td>
<td>1.7</td>
</tr>
</tbody>
</table>

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

**WORKING FORCES**

Component Weights
Arm including bucket cylinder and linkage
3380 mm 11’1” arm assembly .......................... 2141 kg 4,720 lb
4000 mm 13’1” arm assembly .......................... 2408 kg 5,309 lb
4800 mm 15’9” arm assembly .......................... 2645 kg 5,831 lb

One piece HD boom including arm cylinder
7060 mm 23’2” boom assembly.......................... 4017 kg 8,856 lb
Boom cylinders x 2 .................................. 366 kg 807 lb
Counterweight (standard)............................ 9573 kg 21,105 lb
Counterweight (for removal system) ............... 8700 kg 19,180 lb

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<td>Operating Weight</td>
<td>Ground Pressure (ISO 16754)</td>
</tr>
<tr>
<td>3380 mm 11’1”</td>
<td>Bucket digging force 28600 kgf / 61,730 lb</td>
<td>28000 kgf / 61,730 lb</td>
</tr>
<tr>
<td>4000 mm 13’1”</td>
<td>Arm crowdf force 2141 kg / 4,720 lb</td>
<td>19400 kgf / 42,770 lb</td>
</tr>
<tr>
<td>4800 mm 15’9”</td>
<td>Bucket digging force 24400 kgf / 53,790 lb</td>
<td>24400 kgf / 53,790 lb</td>
</tr>
<tr>
<td></td>
<td>Arm crowdf force 2000 kgf / 46,080 lb</td>
<td>18800 kgf / 41,450 lb</td>
</tr>
</tbody>
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<th>Component</th>
<th>Fixed Gauge</th>
<th>Variable Gauge</th>
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<tbody>
<tr>
<td>Arm Length</td>
<td>Operating Weight</td>
<td>Ground Pressure (ISO 16754)</td>
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<td>Operating Weight</td>
<td>Ground Pressure (ISO 16754)</td>
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<tr>
<td>3380 mm 11’1”</td>
<td>Bucket digging force 28600 kgf / 61,730 lb</td>
<td>28000 kgf / 61,730 lb</td>
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<tr>
<td>4000 mm 13’1”</td>
<td>Arm crowdf force 2141 kg / 4,720 lb</td>
<td>19400 kgf / 42,770 lb</td>
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<tr>
<td>4800 mm 15’9”</td>
<td>Bucket digging force 24400 kgf / 53,790 lb</td>
<td>24400 kgf / 53,790 lb</td>
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<tr>
<td></td>
<td>Arm crowdf force 2000 kgf / 46,080 lb</td>
<td>18800 kgf / 41,450 lb</td>
</tr>
</tbody>
</table>

Component Weights
Arm including bucket cylinder and linkage
3380 mm 11’1” arm assembly .......................... 2141 kg 4,720 lb
4000 mm 13’1” arm assembly .......................... 2408 kg 5,309 lb
4800 mm 15’9” arm assembly .......................... 2645 kg 5,831 lb

One piece HD boom including arm cylinder
7060 mm 23’2” boom assembly.......................... 4017 kg 8,856 lb
Boom cylinders x 2 .................................. 366 kg 807 lb
Counterweight (standard)............................ 9573 kg 21,105 lb
Counterweight (for removal system) ............... 8700 kg 19,180 lb

<table>
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<th>Fixed Gauge</th>
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</tr>
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**SPECIFICATIONS**

### SPECIFICATIONS

#### Dimensions

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<th>3380 mm</th>
<th>4000 mm</th>
<th>4800 mm</th>
<th>159&quot;</th>
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| A | Overall length | 11995 mm | 11930 mm | 11950 mm | 11795 mm | 38'8"
| B | Length on ground (transport) | 7475 mm | 6705 mm | 6330 mm | 6035 mm | 20'9"
| C | Overall height (to top of boom)* | 3745 mm | 3635 mm | 3885 mm | 4435 mm | 14'7"
| D | Overall width | 3768 mm | 12'4" | 12'3" | 12'9" | 14'7"
| E | Overall height (to top of cab)* | 3360 mm | 11'0" | 11'0" | 11'1" | 11'1"
| F | Overall height (to top of handrail)* | 3450 mm | 11'4" | 11'5" | 11'6" | 11'6"
| G | Ground clearance, counterweight | 1385 mm | 47" | 47" | 47" | 47"
| H | Ground clearance, minimum | 550 mm | 1'10" | 1'10" | 1'10" | 1'10"
| I | Overall width (crawler retracted) | 3415 mm | 11'2" | 11'2" | 11'2" | 11'2"
| J | Track length on ground | 4350 mm | 14'3" | 14'3" | 14'3" | 14'3"
| K | Track length | 5385 mm | 17'8" | 17'8" | 17'8" | 17'8"
| L | Track gauge | 2740 mm | 9'0" | 9'0" | 9'0" | 9'0"
| M | Width of crawler 700 mm 28" shoe | 3440 mm | 11'2" | 11'2" | 11'2" | 11'2"
| N | Shoe width | 900 mm | 30.5" | 30.5" | 30.5" | 30.5"
| O | Grouser height | 37 mm | 1.5" | 1.5" | 1.5" | 1.5"
| P | Machine height to top of engine cover | 3830 mm | 11'11" | 11'11" | 11'11" | 11'11"
| Q | Machine upper width ** | 3145 mm | 10'4" | 10'4" | 10'4" | 10'4"
| R | Distance, swing center to rear end | 3605 mm | 11'10" | 11'10" | 11'10" | 11'10"

**Variable Track Gauge Dimensions**

| D1 | Overall width (crawler extended) | 3915 mm | 12'10"
| D2 | Overall width (crawler retracted) | 3415 mm | 11'2"
| H | Ground clearance, minimum | 700 mm | 2'3"
| L | Track gauge | 2890 mm | 9'6"

**Width of crawler 700 mm 28" shoe (crawler extended)**

| M1 | Width of crawler 700 mm 28" shoe | 3590 mm | 11'10"
| M2 | Width of crawler 700 mm 28" shoe (crawler retracted) | 3092 mm | 10'2"

**Shoe width**

| N | Shoe width | 900 mm | 30.5"

* - Including grouser height  ** - Including handrail  

### Backhoe Bucket, Arm and Boom Combination

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<tr>
<th>Bucket Type</th>
<th>Capacity</th>
<th>Teeth</th>
<th>Width</th>
<th>Weight</th>
<th>Tip Radius</th>
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<td>762 mm</td>
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<td>2.25 m³</td>
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- Used with material weights up to 2,500 lb/yd³
- Quarry/rock/high abrasion applications
- Used with material weights up to 3,000 lb/yd³ - Tough digging applications
- Used with material weights up to 2,000 lb/yd³ - General construction
- Not useable
## Working Range

### Diagram

- **A**: Max. digging height
  - 10350 mm (34'0")
  - 10980 mm (36'0")
  - 11090 mm (36'5")
  - 11150 mm (37'11")

- **B**: Max. dumping height
  - 7145 mm (23'5")
  - 7630 mm (25'0")
  - 7780 mm (25'6")
  - 8210 mm (26'11")

- **C**: Max. digging depth
  - 5635 mm (18'6")
  - 6805 mm (22'4")
  - 7220 mm (23'8")
  - 8085 mm (26'6")

- **D**: Max. vertical wall digging depth
  - 7280 mm (23'11")
  - 7755 mm (25'5")
  - 8380 mm (27'6")
  - 9190 mm (30'2")

- **E**: Max. digging depth for 8' level bottom
  - 7090 mm (23'3")
  - 7615 mm (25'0")
  - 8250 mm (27'0")
  - 9080 mm (29'10")

- **F**: Max. digging reach
  - 11445 mm (37'7")
  - 12030 mm (39'6")
  - 12565 mm (41'3")
  - 13365 mm (43'10")

- **G**: Max. digging reach at ground level
  - 11230 mm (36'10")
  - 11810 mm (39'6")
  - 12365 mm (40'7")
  - 13180 mm (43'3")

- **H**: Min. swing radius
  - 4810 mm (15'9")
  - 4735 mm (15'6")
  - 4800 mm (15'9")
  - 4885 mm (16'0")

### SAE Rating

- **Bucket digging force at power max.**
  - 239 kN (24,400 kg / 53,790 lb)
  - 24,400 kg (53,790 lb)
  - 24,400 kg (53,790 lb)
  - 24,400 kg (53,790 lb)

- **Arm crowd force at power max.**
  - 257 kN (28,000 kg / 61,730 lb)
  - 28,000 kg (61,730 lb)
  - 28,000 kg (61,730 lb)
  - 28,000 kg (61,730 lb)

### ISO Rating

- **Bucket digging force at power max.**
  - 275 kN (28,000 kg / 61,730 lb)
  - 28,000 kg (61,730 lb)
  - 28,000 kg (61,730 lb)
  - 28,000 kg (61,730 lb)

- **Arm crowd force at power max.**
  - 257 kN (28,000 kg / 61,730 lb)
  - 28,000 kg (61,730 lb)
  - 28,000 kg (61,730 lb)
  - 28,000 kg (61,730 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  
Θ: Rating at maximum reach

**Conditions:**  
- Boom length: 7060 mm 23' 2"  
- Bucket: None  
- Undercarriage: Fixed Gauge  
- Lifting mode: On

**Arm: 2900 mm 9'6"**  
**Bucket: None**  
**Shoes: 900 mm 35.5° triple grouser**  
**Unit: kg lb**

<table>
<thead>
<tr>
<th>A</th>
<th>MAX</th>
<th>3.0 m 10'</th>
<th>4.6 m 15'</th>
<th>6.1 m 20'</th>
<th>7.6 m 25'</th>
<th>9.1 m 30'</th>
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**Arm: 3380 mm 11'1"**  
**Bucket: None**  
**Shoes: 900 mm 35.5° triple grouser**  
**Unit: kg lb**

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**LIFTING CAPACITY WITH LIFTING MODE**

**Arm: 4000 mm 137**

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

<table>
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<tr>
<th>Arm: 4000 mm 137&quot;</th>
<th>Bucket: None</th>
<th>Shoes: 900 mm 35.5&quot; triple grouser</th>
<th>Unit: kg lb</th>
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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
Θ: Rating at maximum reach

Conditions:
• Boom length: 7060 mm 23’ 2”
• Bucket: None
• Undercarriage: Variable Gauge in extended position
• Lifting mode: On

Arm: 2900 mm 9’6” Bucket: None Shoes: 900 mm 35.5” triple grouser

<table>
<thead>
<tr>
<th>B</th>
<th>MAX</th>
<th>3.0 m 10’</th>
<th>4.6 m 15’</th>
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Arm: 3380 mm 11’1” Bucket: None Shoes: 900 mm 35.5” triple grouser

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<tr>
<th>B</th>
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**LIFTING CAPACITY WITH LIFTING MODE**

**Arm: 4000 mm 13'1"**

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

---

**Boom length: 7060 mm 23' 2"**  
**Bucket: None**  
**Undercarriage: Variable Gauge in extended position**  
**Lifting mode: On**

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**Arm: 4800 mm 15'9"**

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

---

**Boom length: 7060 mm 23' 2"**  
**Bucket: None**  
**Undercarriage: Variable Gauge in extended position**  
**Lifting mode: On**

* Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Total weight of bucket and/or installed attachments must be deducted from the capacities shown above. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.
STANDARD EQUIPMENT

- 3 speed travel with auto shift
- Alternator, 90 Ampere, 24V
- AM/FM radio
- Arm holding valve
- Automatic climate control/air conditioner/heater/defroster
- Auto idle
- Auto idle shut down, programmable
- Auxiliary input (3.5mm jack)
- Batteries, large capacity (2 x 12V)
- Battery master disconnect switch
- Boom holding valves
- Carrier rollers, (2 each side)
- Converter, (2) x 12V
- Counterweight, 95.7 kg 21,105 lb
- Dry type air cleaner, double element
- Electric horn
- Engine, Komatsu SAA6D125E-7
- Engine coolant to -25°C, -13°F
- EMMS monitoring system
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel priming pump, 24V
- Fuel system pre-filter 10 micron
- Grease sealed track chain
- High back air suspension seat, with heat
- Hydraulic track adjusters
- KOMTRAX® Level 5.0
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1
- Operator identification system
- Pattern change valve (ISO to BH control)
- Power maximizing system
- PPC hydraulic control system
- Pump/engine room partition cover
- Revolving frame deck guard
- Reversing frame undercovers
- ROPS cab (ISO12117-2)
- Seat belt indicator
- Seat belt, retractable, 76mm 3"
- Secondary engine shutoff switch
- Service valve
- Skylight
- Slip resistant foot plates
- Starter motor, 11.0kW/24V x 1
- Thermal and fan guards
- Track frame swivel guard
- Track roller guards, center section
- Track rollers, (8 each side)
- Track shoes, triple grouser, 700mm 28"
- Travel alarm
- Two boom mode settings
- Variable speed cooling fan, hydraulic drive, reversible
- Working lights, 2 (boom and RH front)
- Working mode selection system

OPTIONAL EQUIPMENT

Arms
- 2900 mm 9’6” arm assembly
- 3380 mm 11’1” arm assembly
- 3380 mm 11’1” arm assembly with piping
- 4000 mm 13’1” arm assembly
- 4800 mm 15’9” arm assembly

Booms
- 7000 mm 23’2” HD boom assembly
- 7000 mm 23’2” HD boom assembly with piping

Cab guards
- Lower front window guard
- Full front guard, OPG Level 1
- Full front guard, OPG Level 2
- Bolt-on top guard, OPG Level 2
- Counterweight removal device with 8,700 kg 19,180 lb counterweight
- Counterweight, 11,500 kg 25,353 lb with revolving frame reinforcement for use with super long fronts only
- High altitude arrangement
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Proportional control handles
- Rain visor
- Revolving frame undercovers, heavy duty
- Revolving frame undercovers, severe duty
- Sun visor
- Straight travel pedal
- Track roller guards, full length
- Track shoes, triple grouser, 800 mm 31.5"
- Track shoes, triple grouser, 900 mm 35.5"
- Working lights, front, two additional cab mounted
- Variable track gauge

ATTACHMENT OPTIONS

- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Load hold, anti-burst valves
- Material handler front
- Super long fronts
- PSM thumbs
- Rockland thumbs
- Vandalism protection guards with storage box

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

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

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