**PC650LC-11**

**Tier 4 Final Engine**

**HYDRAULIC EXCAVATOR**

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**Photos may include optional equipment.**

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**NET HORSEPOWER**
- 436 HP @ 1800 rpm
- 325 kW @ 1800 rpm

**OPERATING WEIGHT**
- 140,456–145,284 lb
- 63710–65900 kg

**BUCKET CAPACITY**
- 2.05–4.98 yd³
- 1.57–3.81 m³
WALK-AROUND

Net Horsepower
436 HP @ 1800 rpm
325 kW @ 1800 rpm

Operating Weight
140,456–145,284 lb
63710–65900 kg

Bucket Capacity
2.05–4.98 yd³
1.57–3.81 m³
HIGH PERFORMANCE AND TRANSPORTABILITY

**High Performance**
An excellent match for high production loading of 30-40 ton trucks and well suited for deep sewer and water trenching applications.

**Transportability**
Designed to accommodate flexible job operations that require frequent transportation. Reduced disassembly and time required.

A powerful Komatsu SAA6D140E-7 engine provides a net output of 325 kW 436 HP. This engine is EPA Tier 4 Final emissions certified.

Variable Geometry Turbocharger (VGT) water cooled and hydraulically controlled to provide precise air-fuel control and fluid engine response.

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

**Grouped maintenance points** conveniently located in latched service access doors.

**Two boom mode settings** provide power mode for maximum digging force or soft mode to minimize machine lifting when working on hard surfaces or hammer operation.

Komatsu's Open-center Load Sensing System (OLSS) balances hydraulic pump pressure and flow to allow smooth multi-function regardless of load.

**KOMTRAX®**
The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription-fee's throughout the life of the machine. Using the latest 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.

**Single camera rearview monitoring system (Standard)**

Large LCD color monitor panel:
- Integrated climate and navigation controls
- 7" high resolution screen
- Provides "Ecology-Guidance" for fuel efficient operation
- Rearview camera display integrated into a new monitor display layout for improved operator awareness of the work area.

Three working modes (Power, Economy, and Lift Mode) are designed to match engine speed, pump delivery, and system pressure to a wide range of applications.

Enhanced working environment
- High back, heated air, suspension operator seat with adjustable arm rests
- Auto climate control
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard
- Aux jack and (2) 12V power outlets
- Low operator sound level

**Komatsu designed and manufactured components**

**Hydraulically driven reversible variable speed fan** is temperature controlled to reduce parasitic load on the engine and improve fuel consumption. Reversible fan direction helps cleaning of coolers to reduce 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** records KOMTRAX machine operation and application data for up to 100 individual codes.

**KOMTRAX® telematics system** is standard on Komatsu equipment with no subscription-fee's throughout the life of the machine. Using the latest 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.
Komatsu’s New Emission Regulations-compliant Engine
New regulations effective in 2014 require the reduction of NOx emissions to one tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new Selective Catalytic Reduction (SCR) device in-house.

Technologies Applied to New Engine

Heavy-duty aftertreatment system
This new system combines a Diesel Particulate Filter (DPF) and SCR. The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into H2O and N2.

Heavy-duty cooled Exhaust Gas Recirculation (EGR) system
The system recirculates a portion of exhaust gas into air intake and lowers combustion temperatures, thereby reducing NOx emissions. Furthermore, while EGR gas flow is increased, by incorporating a high-efficiency and compactly designed cooling system, the system achieves a dynamic reduction of NOx, while helping reduce fuel consumption.

Advanced electronic control system
The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle and engine to ensure total control of equipment in all conditions of use. Conditions of the engine are displayed via an on-board network on the monitor inside the cab, providing necessary information to the operator. Furthermore, managing the information via KOMTRAX helps customers engage in appropriate 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. New water cooled bearing design helps extend turbo life.
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, thereby bringing close to complete combustion to reduce Particulate Matter (PM) emissions.

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.

Fuel Consumption

Reduced by up to 6%
(compared to the PC650LC-8E0)

Based on typical work pattern collected via KOMTRAX
Large Digging Force
With the one-touch Power Max. function digging force is further increased (8 seconds of operation).

Maximum arm crowd force (ISO)

<table>
<thead>
<tr>
<th>Force Level</th>
<th>Measured Value</th>
<th>Power Max. Value</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>234 kN(23.5t)</td>
<td>246 kN(25.1t)</td>
<td>6.5% UP</td>
<td></td>
</tr>
<tr>
<td>301 kN(30.3t)</td>
<td>317 kN(32.3t)</td>
<td>6.5% UP</td>
<td></td>
</tr>
</tbody>
</table>

Measured with Power Max. function, 3500 mm arm and ISO 6015 rating.

Quick Cycle Times
Dual swing motors and arm quick return circuit provide fast cycle times under heavy loads.

Two-mode Setting for Boom
Smooth mode reduces boom down power for easy trench/bench floor cleaning and hammer applications. Power mode disables the boom float function for maximum digging force.

Digging Depth
With the 25’2” Boom and 17’1” arm the PC650LC-11 has the best in class digging depth capabilities. This configuration can dig to depths up to 33’7”.

Work Equipment Drift Control
Standard arm and boom holding valves provide superior drift control when lifting heavy structures.
**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 arm tip.

**O-ring Face Seal**
The hydraulic hoses feature O-ring face seals to improve sealing performance and operation.

**Frame Structure**
The revolving frame and center frame swing circle mounts are one-piece non-welded structures that transmit force directly through the thick plate without passing through welded joints.

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

**High-pressure In-line Filtration**
An in-line filter in the outlet port of each main hydraulic pump offers extra protection against failures caused by contamination.

**Metal Guard Rings**
Metal guard rings protect all the hydraulic cylinders and improve reliability.

**Heat-resistant Wiring**
Heat-resistant wiring is used for the engine electric circuit and other major component circuit.

**Circuit Breaker**
With circuit breaker, the machine can be easily restarted after repair.

**Sturdy Undercarriage**
The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock. Sturdy guards shield the travel motors and pipings against damage from rocks.

**Strengthened Revolving Frame Underguard**
Guards the machine body against rock damage and protects hydraulic components and the engine from intruding objects.

**DT-Type Connectors**
Sealed connectors seal tight and have higher reliability.
**PRODUCTION & TRUCK MATCHING**

Designed for high production loading for a variety of hauling trucks.

### Pass Matching

<table>
<thead>
<tr>
<th>Capacity (yd³)</th>
<th>HM300-5 30 ton</th>
<th>HM400-5 44 ton</th>
<th>HD325-8 40 ton</th>
<th>HD405-8 44 ton</th>
<th>HD465-8 61 ton</th>
<th>HD605-8 69 ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC650LC-11</td>
<td>4.5</td>
<td>5</td>
<td>7</td>
<td>7</td>
<td>9</td>
<td>11</td>
</tr>
</tbody>
</table>
Comfortable Working Space

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

Arm rest with simple height adjustment
A plunger and lock permits simple and fast adjustments or armrest height.

Low vibration with cab viscous dampers

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)
AM/FM stereo radio & ashtray

Remote intermittent wiper with windshield washer
Cigarette lighter

Opening & closing skylight
Magazine box & cup holder

Defroster
Front lower window glass storage
(Conform to the ISO 10263-5)
WORKING ENVIRONMENT

LARGE HIGH RESOLUTION LCD MONITOR

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

Switchable Display Modes
The main screen display mode can be changed by pressing the pressing the F3 key.

Machine Monitor with Evolutionary Interface
The interface has been redesigned to enable the necessary information to be read and understood more easily, while retaining the maneuverability of previous models. A rear view camera image and a DEF level gauge display have been added to the default main screen. The interface has a function that enables the main screen to be switched, thus enabling the optimum screen for the particular work situation to be displayed.

Indicators

1. Auto-decelerator
2. Working mode
3. Travel speed
4. Ecology gauge
5. Camera display
6. Engine coolant temperature gauge
7. Hydraulic oil temperature gauge
8. Fuel gauge
9. DEF level gauge
10. Service meter, clock
11. Fuel consumption gauge
12. Guidance icon
13. Function switches
14. Camera direction display
15. DEF level caution lamp

Basic operation switches

1. Auto-decelerator
2. Working mode selector
3. Travel speed selector
4. Buzzer cancel
5. Wiper
6. Window washer

Default display mode

Full rearview display mode
KomVision (Optional)

An optional four camera system provides a bird’s eye view (including cab visibility) of the machine and surrounding area. This system improves operation and situational awareness on the jobsite.

KomVision benefits operators working in urban environments, confined spaces, and high traffic jobsites from increased visibility and situational awareness.

Includes four cameras:
1. Front right camera
2. Rear right camera
3. Left rear camera
4. Standard rear view camera

Monitor display provides individual camera views as well as a bird’s eye view.

Distance markers are displayed in the monitor to show machine swing tail radius.
MAINTENANCE FEATURES

Centralized Engine Check Points
Grouped engine oil, fuel, and air filters are located on the front side of the engine for easy service access.

Swing out radiator guard door
Swing out design provides access to clean trapped debris on coolers and removable debris screens.

Electric Operated Grease Gun Equipped with Hose Reel
A 36 ft. hose and grease gun provides easy access to the machine’s grease points. An indicator is included to monitor grease level. Greasing system accepts 5 gallon grease buckets.

Grease gun located in compartment underneath the front step provides easy ground level access.

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

Reversible cooling fan
A reversible hydraulically driven fan helps maintain clean cooler cores.
Washable Cab Floor Mat
The PC650LC-11’s floor is easy to keep clean. The gently inclined surface has a flanged floor mat and drainage holes to facilitate run off.

Wide Walkway and Large Handrails
Provides sufficient room for access to operator cab and pump compartment.

Long-life Oil, Filter
Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

<table>
<thead>
<tr>
<th>Component</th>
<th>Replacement Interval</th>
</tr>
</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>

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 Stational Regeneration
Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel. A soot level indicator is displayed to show how much soot is trapped in the DPF.

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.
Large production machine designed for easy transportation between jobsite locations

Machine design allows for low transportation height and reduces transportation costs. Less disassembly required to meet transportation weight requirements. Removing bucket (5,000-8,000 lb.), arm (7,099-9,171 lb.), and counterweight (23,496 - 26,345 lb.), reduces transportation weight down to roughly 105,000 lb. (Actual weight may vary with different work equipment and attachments).

Counterweight Remover Option

Simplifies the process of machine transportation by providing a convenient way of removing the counterweight without the use of a crane.

Variable Track Gauge

Track gauge adjusts from 8’6” to 10’10” to provide narrow trailer loading capabilities or increased machine stability over the side.
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 PC650LC-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

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

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

**Complimentary DPF Exchange**

The PC650LC-11 comes standard with 2 Complimentary DPF Exchange Units for the first 5 years (unlimited hours) Complimentary DPF Exchange Units are provided at: The suggested DPF Exchange Units Service Intervals of 4,500 hours and 9,000 hours during the first 5 years. End User must have authorized Komatsu distributor perform the removal and installation of the DPF.

**Complimentary SCR System Maintenance**

The PC650LC-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel exhaust fluid (DEF) system during the first 5 years—no hour limit—including: Factory recommended DEF tank flush and strainer cleaning at 4,500 hours and 9,000 hours.

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**Interval PM**

<table>
<thead>
<tr>
<th>Interval PM</th>
<th>500</th>
<th>1000</th>
<th>1500</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOWA SAMPLING – (Engine, Hydraulics, L &amp; R Swing Machinery, L &amp; R Final Drives)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>LUBRICATE MACHINE</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>LUBRICATE SWING CIRCLE</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>CHANGE ENGINE OIL</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>REPLACE ENGINE OIL FILTER</td>
<td>✔</td>
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</tr>
<tr>
<td>REPLACE FUEL PRE-FILTER</td>
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</tr>
<tr>
<td>REPLACE AC FRESH &amp; RECIRC AIR FILTERS</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>CLEAN PTO STRAINER</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CLEAN AIR CLEANER ELEMENT</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>DRAIN SEDIMENT FROM FUEL TANK</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>COMPLETE 50 POINT INSPECTION FORM: LEAVE PINK COPY WITH CUSTOMER OR IN CAB</td>
<td>✔</td>
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<tr>
<td>RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>REPLACE HYDRAULIC TANK BREATHER ELEMENT</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>REPLACE DEF TANK BREATHER ELEMENT</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>REPLACE FUEL MAIN FILTER</td>
<td>✔</td>
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<tr>
<td>CHANGE PTO CASE OIL</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CHANGE SWING MACHINERY OIL</td>
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</tr>
<tr>
<td>REPLACE HYDRAULIC OIL FILTER ELEMENT</td>
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<td>✔</td>
</tr>
<tr>
<td>CLEAN HYDRAULIC TANK STRAINER</td>
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<tr>
<td>CHANGE FINAL DRIVE OIL</td>
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<tr>
<td>REPLACE KCCV FILTER ELEMENT</td>
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<tr>
<td>REPLACE DEF PUMP FILTER</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>FACTORY TRAINED TECHNICIAN LABOR</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

2 DPF Exchanges at 4,500 Hrs and 9,000 Hrs.

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**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

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SPECIFICATIONS

ENGINE
Model: Komatsu SAA6D140E-7
Type: Water-cooled, 4-cycle, direct injection
Aspiration: Turbocharged, aftercooled, EGR
Number of cylinders: 6
Bore: 140 mm
Stroke: 165 mm
Piston displacement: 15.24 ltr
Horsepower:
SAE J1995: Gross 327 kW 439 HP
ISO 9249 / SAE J1349: Net 325 kW 436 HP
Rated rpm: 1800
Governor: All-speed control, electronic
Fan drive method for radiator cooling: Hydraulic
*EPA Tier 4 Final emissions certified

HYdraulics
Type: Open-center load sensing system, 3 selectable working modes
Main pump:
Type: Variable capacity piston pumps for Boom, arm, bucket, swing, and travel circuits
Sub-pump for control circuit: Gear type
Hydraulic motors:
Travel: 2 x axial piston motors with parking brake
Swing: 2 x axial piston motors with swing holding brake
Relief valve setting:
Implement circuits: 32.4 MPa 330 kgf/cm² 4,700 psi
Travel circuit: 34.3 MPa 350 kgf/cm² 4,980 psi
Swing circuit: 25.5 MPa 260 kgf/cm² 3,700 psi
Pilot circuit: 2.9 MPa 30 kgf/cm² 430 psi
Hydraulic cylinders:
(Number of cylinders – bore x stroke x rod diameter)
Boom: 2–185 mm x 1725 mm x 120 mm
Arm: 1–200 mm x 2045 mm x 140 mm
Bucket: 1–185 mm x 1425 mm x 130 mm

Swing System
Drive method: 2 x hydraulic motors
Swing reduction: Planetary gear
Swing circle lubrication: Grease-bathed
Service brake: Hydraulic disc brake
Holding brake/Swing lock: Mechanical disc brake
Swing speed: 8.3 rpm
Swing torque: 21369 kg•m 154,481 ft lbs

Undercarriage
Center frame: H-leg
Track frame: Box-section
Track type: Sealed
Track adjuster: Hydraulic
Number of shoes (each side): 52
Number of carrier rollers (each side): 3
Number of track rollers (each side): 9

Coolant & Lubricant Capacity
Fuel tank: 880 ltr 232 U.S. gal
Engine: 48 ltr 12.7 U.S. gal
Final drive, each side: 10 ltr 2.65 U.S. gal
Swing drive: 2 x 13 ltr 3.4 U.S. gal
Fuel tank: 360 ltr 95.1 U.S. gal
Hydraulic tank: 2 x 13 ltr 3.4 U.S. gal
Diesel Exhaust Fluid (DEF) tank: 62.2 ltr 16.4 U.S. gal

Sound Performance
Exterior – ISO 6395: 104 dB(A)
Operator – ISO 6396: 73 dB(A)

Operating Weight (Approximate)
Operating weight includes 7660 mm 25'2" one-piece boom, 3500 mm 11'6" arm, ISO 7451 heaped 2.70 m³ 3.53 yd³ bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Drives and Brakes
Steering control: Two levers with pedals
Drive method: Fully hydrostatic
Travel motor: Axial piston motor, in-shoe design
Reduction system: Planetary triple reduction
Maximum drawbar pull: 415 kN 42300 kgf 93,250 lbf
Gradeability: 70%, 35%
Maximum travel speed:
High: 4.9 km/h 3.0 mph
Low: 3.0 km/h 1.9 mph
Service brake: Hydraulic lock
Parking brake: Oil disc brake

Component Weights
Boom assembly including arm cylinder:
7600 mm 25'2" boom assembly: 4870 kg 10,736 lb
Boom cylinders only: 1000 kg 2,205 lb
Arm assembly including bucket cylinder and linkage:
3500 mm 11'6" arm assembly: 3220 kg 7,099 lb
4300 mm 14'1" arm assembly: 3740 kg 8,245 lb
5200 mm 17'1" arm assembly: 4160 kg 9,171 lb
Counterweight: 11949 kg 26,345 lb
Counterweight w/remover: 10657 kg 23,496 lb
2.70 m³ 3.53 yd³ bucket - 54" width: 3947 kg 8,739 lb
**SPECIFICATIONS**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>3500 mm</th>
<th>114”</th>
<th>4300 mm</th>
<th>141”</th>
<th>5200 mm</th>
<th>171”</th>
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<tbody>
<tr>
<td>A</td>
<td>Overall length</td>
<td>13005 mm</td>
<td>42’6”</td>
<td>12925 mm</td>
<td>42’4”</td>
<td>12630 mm</td>
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<td>B</td>
<td>Overall height (To top of boom)*</td>
<td>4300 mm</td>
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<tr>
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<td>Overall width</td>
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<td>D</td>
<td>Overall height (To top of cab)</td>
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<td>E</td>
<td>Ground clearance, countermu</td>
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<td>F</td>
<td>Ground clearance (Minimum)</td>
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<td>G</td>
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<td>K</td>
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<td>L</td>
<td>Width of crawler when retracted</td>
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<td>M</td>
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<td>4200 mm</td>
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<td>N</td>
<td>Shoe width</td>
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<td>O</td>
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<td>P</td>
<td>Machine height to top of engine cover</td>
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<td>Q</td>
<td>Machine upper width</td>
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<td>R</td>
<td>Distance, swing center to rear end</td>
<td>3870 mm</td>
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<td>S</td>
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* : Including grouser height

**BACKHOE BUCKET, ARM AND BOOM COMBINATION**

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<th>Bucket Type</th>
<th>Komatsu HP</th>
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<th>Komatsu HPX</th>
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<td>1.93 m³</td>
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<td>Bucket</td>
<td>2.05 yd³</td>
<td>2.52 yd³</td>
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<td>1067 mm</td>
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<tr>
<td>Weight</td>
<td>2194 kg</td>
<td>2333 kg</td>
<td>2333 kg</td>
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<td>Tip Radius</td>
<td>3.5 m (11’6”)</td>
<td>4.3 m (14’1”)</td>
<td>5.2 m (17’1”)</td>
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<tr>
<td>Boom 7.6 m (25’2”)</td>
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- Used with material weights up to 3,500 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 2,500 lb/yd³ – General construction
- Not useable

- Used with material weights up to 2,000 lb/yd³ – Light materials applications

- Used with material weights up to 2,000 lb/yd³ – Light materials applications

- Not useable

- Not useable
**PC650LC-11**

**Working Range**

### Standard Spec

<table>
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<tr>
<th>Feature</th>
<th>7600 mm</th>
<th>25'2&quot;</th>
<th>7600 mm</th>
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<tr>
<td><strong>Boom Length</strong></td>
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<td>7600 mm</td>
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<tr>
<td><strong>Arm Length</strong></td>
<td>3500 mm</td>
<td>11'6&quot;</td>
<td>4300 mm</td>
<td>14'1&quot;</td>
<td>5200 mm</td>
<td>17'1&quot;</td>
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<tr>
<td><strong>Max. digging height</strong></td>
<td>11880 mm</td>
<td>39'0&quot;</td>
<td>12180 mm</td>
<td>40'0&quot;</td>
<td>12560 mm</td>
<td>41'3&quot;</td>
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<tr>
<td><strong>Max. dumping height</strong></td>
<td>7960 mm</td>
<td>26'1&quot;</td>
<td>8245 mm</td>
<td>27'1&quot;</td>
<td>8600 mm</td>
<td>28'3&quot;</td>
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<tr>
<td><strong>Max. digging depth</strong></td>
<td>8490 mm</td>
<td>27'10&quot;</td>
<td>9275 mm</td>
<td>30'5&quot;</td>
<td>10225 mm</td>
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<tr>
<td><strong>Max. vertical wall digging depth</strong></td>
<td>7510 mm</td>
<td>24'8&quot;</td>
<td>8375 mm</td>
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<tr>
<td><strong>Max. digging depth for 8' level bottom</strong></td>
<td>8380 mm</td>
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<tr>
<td><strong>Max. digging reach</strong></td>
<td>13020 mm</td>
<td>42'9&quot;</td>
<td>13740 mm</td>
<td>45'1&quot;</td>
<td>14630 mm</td>
<td>48'0&quot;</td>
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<tr>
<td><strong>Max. digging reach at ground level</strong></td>
<td>12800 mm</td>
<td>42'0&quot;</td>
<td>13555 mm</td>
<td>44'6&quot;</td>
<td>14435 mm</td>
<td>47'4&quot;</td>
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<tr>
<td><strong>Min. swing radius</strong></td>
<td>5370 mm</td>
<td>17'7&quot;</td>
<td>5385 mm</td>
<td>17'8&quot;</td>
<td>5510 mm</td>
<td>18'1&quot;</td>
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**SAE rating**

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<tr>
<td>Bucket digging force at power max.</td>
<td>29,100 kg / 64,150 lb</td>
<td>29,100 kg / 64,150 lb</td>
<td>29,100 kg / 64,150 lb</td>
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<td>Arm crowd force at power max.</td>
<td>238 kN</td>
<td>209 kN</td>
<td>182 kN</td>
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<td>Bucket digging force at power max.</td>
<td>317 kN</td>
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<td>Arm crowd force at power max.</td>
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**ISO rating**

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<tr>
<th>Feature</th>
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<th>32300 kg / 71,210 lb</th>
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<tr>
<td>Bucket digging force at power max.</td>
<td>32300 kg / 71,210 lb</td>
<td>32300 kg / 71,210 lb</td>
<td>32300 kg / 71,210 lb</td>
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<td>Arm crowd force at power max.</td>
<td>25100 kg / 55,340 lb</td>
<td>22200 kg / 48,940 lb</td>
<td>19300 kg / 42,550 lb</td>
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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: 7660 mm 25' 2"  
- Arm length: 3500 mm 11' 6"  
- Shoe: 750 mm 29.5" triple grouser  
- Bucket: None  
- Track gauge in extended position

---

**Arm:** 3500 mm 11"  
**Bucket:** None  
**Shoes:** 750 mm 29.5" triple grouser  
**Unit:** kg  lb

| A         | B   | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | MAX | MAX |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 9.1 m     |     |     |     |     |     |     |     |     |     |     |     |     |     | 12550 | 12550 |
| 30'       |     |     |     |     |     |     |     |     |     |     |     |     | 27700 | 27700 |
| 7.6 m     | 16950 | 16950 | 15000 | 13500 | 12050 | 11250 |
| 25'       | 37300 | 37300 | 34200 | 32000 | 28600 | 25100 |
| 6.1 m     | 22350 | 22350 | 18500 | 17200 | 16300 | 12300 | 10050 |
| 20'       | 49200 | 49200 | 40800 | 39000 | 39100 | 27100 | 22200 |
| 15'       | 55700 | 49700 | 44400 | 36500 | 37900 | 26800 | 22200 |
| 10'       | 60000 | 47200 | 42700 | 33700 | 35300 | 27600 | 21900 |
| 5'        | 27800 | 21200 | 18500 | 15650 | 16850 | 12300 | 10150 |
| 0 m       | 61300 | 46700 | 40000 | 34500 | 37200 | 27100 | 22200 |
| -1.5 m    | 27200 | 21050 | 15400 | 12200 | 14600 | 10700 |
| -5.0 m    | 59900 | 59900 | 50000 | 42000 | 40000 | 34000 | 26000 |
| -10.0 m   | 56600 | 56600 | 50000 | 44000 | 36000 | 26000 | 21900 |
| -15.0 m   | 61000 | 47300 | 39000 | 34000 | 27000 | 19000 | 13100 |
| -6.1 m    | 20050 | 16000 | 16000 | 13900 | 13900 |
| -20.0 m   | 44200 | 35300 | 35300 | 30600 | 30600 |

*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.*

---

**Arm:** 3500 mm 11"  
**Bucket:** None  
**Shoes:** 900 mm 35.5" triple grouser  
**Unit:** kg  lb

| A         | B   | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | Cf  | Cs  | MAX | MAX |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 9.1 m     |     |     |     |     |     |     |     |     |     |     |     |     |     | 12550 | 12550 |
| 30'       |     |     |     |     |     |     |     |     |     |     |     |     | 27700 | 27700 |
| 7.6 m     | 16950 | 16950 | 15000 | 13500 | 12050 | 11250 |
| 25'       | 37300 | 37300 | 34200 | 32000 | 28600 | 25100 |
| 6.1 m     | 22350 | 22350 | 18500 | 17200 | 16300 | 12300 | 10050 |
| 20'       | 49200 | 49200 | 40800 | 39000 | 39100 | 27100 | 22200 |
| 15'       | 55700 | 49700 | 44400 | 36500 | 37900 | 26800 | 22200 |
| 10'       | 60000 | 47200 | 42700 | 33700 | 35300 | 27600 | 21900 |
| 5'        | 27800 | 21200 | 18500 | 15650 | 16850 | 12300 | 10150 |
| 0 m       | 61300 | 46700 | 40000 | 34500 | 37200 | 27100 | 22200 |
| -1.5 m    | 27200 | 21050 | 15400 | 12200 | 14600 | 10700 |
| -5.0 m    | 59900 | 59900 | 50000 | 42000 | 40000 | 34000 | 26000 |
| -10.0 m   | 56600 | 56600 | 50000 | 44000 | 36000 | 26000 | 21900 |
| -15.0 m   | 61000 | 47300 | 39000 | 34000 | 27000 | 19000 | 13100 |
| -6.1 m    | 20050 | 16000 | 16000 | 13900 | 13900 |
| -20.0 m   | 44200 | 35300 | 35300 | 30600 | 30600 |

*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
C*: Rating at maximum reach

**Conditions:**
- Boom length: 7660 mm 25’ 2”
- Arm length: 4300 mm 14’ 1”
- Shoe: 750 mm 29.5” triple grouser
- Bucket: None
- Track gauge in extended position

**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

**Arm:** 4300 mm 14’ 1”  
**Bucket:** None  
**Shoes:** 750 mm 29.5” triple grouser  
**Unit:** kg lb

<table>
<thead>
<tr>
<th></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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*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.
LIFT CAPACITIES

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

**Conditions:**  
• Boom length: 7660 mm 25’ 2”  
• Arm length: 5200 mm 17’ 1”  
• Shoe: 750 mm 29.5” triple grouser  
• Bucket: None  
• Track gauge in extended position

---

**Arm:** 5200 mm 171”

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<thead>
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<th>A</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>
<th>MAX</th>
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*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

ENGINE
- Alternator & A/C compressor auto-tensioner
- Automatic engine warm-up system
- Dry type air cleaner, double element
- Engine, Komatsu SAA6D140E-7
- Fuel pre-filter with water separator
- Variable speed cooling fan, hydraulic drive, reversible

ELECTRICAL SYSTEM
- Alternator, 24 V/90 A
- Auto-decelerator
- Batteries, 2 x 12 V/170 Ah
- Battery disconnect switch
- Circuit breaker
- Horn, electric
- Horn interconnected with warning light
- Power supply, 12 V
- Starting motor, 24 V/11 kW
- Step light with timer
- Working light, 2 (Boom and RH)
- Working lights, 2 on cab

HYDRAULIC SYSTEM
- S-mode system (Power, Economy, Lifting)
- Arm holding valve
- Boom holding valve
- Fully hydraulic, with Open-Center Load-Sensing and engine speed sensing (Pump and engine control system)
- In-line high pressure filters
- Power maximizing system
- Pressure Proportional Control (PPC) hydraulic control system
- Shockless control system for boom
- Two-mode setting for boom

GUARDS AND COVERS
- Cab guards
  - Bolt-on top guard, OPG Level 2 (ISO 10262)
  - Full front guard, OPG Level 2 (ISO 10262)
- Track roller guard (Full length)
- Fan guard structure
- Strengthened revolving frame underguard
- Track frame undercover (Center)

UNDERCARRIAGE
- Hydraulic track adjusters (Each side)
- Track roller, 9 (Each side)
- Track shoe, 900 mm 35.5" triple grousers
- Variable track gauge

OPERATOR ENVIRONMENT
- A/C with defroster
- AM/FM radio
- Auxiliary input (3.5 mm jack)
- Cab with pull-up type front window
- Engine shut down secondary switch
- High-back suspension seat, heated
- Large high resolution LCD monitor
- Lock lever
- Mirrors (RH, LH)
- Operator protective top guard (OPG), level 1 (ISO 12117-2)
- Rear view monitor system
- Seat belt, retractable, 78 mm
- Washable cab floor mat

OPTIONAL EQUIPMENT

GUARDS AND COVERS
- Cab guards
  - Bolt-on top guard, OPG Level 2 (ISO 10262)
  - Full front guard, OPG Level 2 (ISO 10262)
- Track roller guard (Full length)

OPERATOR ENVIRONMENT
- Cab accessories
  - Rain visor
  - Sun visor
- KomVision

OTHER EQUIPMENT
- Counterweight, 11955 kg 26,358 lbs
- Electric priming pump for fuel
- Equipment Management Monitoring System
- Grease gun, electric pump type
- Hand rails & guard rails
- KOMTRAX
- One-touch engine oil drainage
- Preventive Maintenance (PM) tune-up service connector
- Rear reflector
- Slip-resistant plates
- Travel alarm
- Wide walkway

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