Hydraulic Excavator

Photos may include optional equipment.

PC360LC-11

Tier 4 Final Engine

NET HORSEPOWER
257 HP @ 1950 rpm
192 kW @ 1950 rpm

OPERATING WEIGHT
78,645–80,547 lb
35,627–36,535 kg

BUCKET CAPACITY
0.89–2.56 yd³
0.68–1.96 m³
WALK-AROUND

PG360LC-11

Photos may include optional equipment.

NET HORSEPOWER
257 HP @ 1950 rpm
192 kW @ 1950 rpm

OPERATING WEIGHT
78,645–80,547 lb
35,627–36,535 kg

BUCKET CAPACITY
0.89–2.56 yd³
0.68–1.96 m³
A powerful Komatsu SAA6D114E-6 engine provides a net output of 192 kW (257 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.

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.

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

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

Power Mode provides improved power and hydraulic flow for faster cycle times and multifunction operation.

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.

Rearview monitoring system (standard) with integrated camera display in the default monitor screen.

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:
- 7” high resolution display
- Enhanced hydraulic attachment control with one way/two way flow and programmable work tool names and settings
- Rear view camera display integrated into the default monitor screen
- Key machine settings and controls easily accessible through the monitor

GREATER PERFORMANCE & FASTER CYCLE TIMES

Komatsu’s Closed-center Load Sensing System (CLSS) provides quick response and smooth operation to maximize productivity. Power Mode with enhanced engine and hydraulic pump control logic provides greater hydraulic power and speed for faster cycle times, improved multifunction performance and up to 12% greater productivity than the previous model.

Enhanced working environment
- High back, heated air suspension 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 between ISO and BH control pattern
- Auxiliary jack and (2) 12V power outlets
- Auto climate control

Komatsu designed and manufactured components

Handrails (standard) located on the machine’s 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 provide 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 ID codes.
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 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-designed 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.

Enhanced Productivity
The PC360LC-11’s P Mode provides improved performance in demanding applications.

Productivity

Up to 12% increase
(compared to the PC360LC-10 in P Mode)

P mode (90° swing truck loading)

Increased Work Efficiency
Large digging force
With the one-touch Power Max. function, digging force is increased for 8.5 seconds of operation.

Maximum arm crowd force (ISO)

<table>
<thead>
<tr>
<th>160 kN(16.3t)</th>
<th>171 kN(17.4t) 7% UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>(With Power Max.)</td>
<td></td>
</tr>
</tbody>
</table>

Maximum bucket digging force (ISO)

<table>
<thead>
<tr>
<th>213 kN(21.7t)</th>
<th>228 kN(23.2t) 7% UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>(With Power Max.)</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Two-mode settings for boom
• Smooth boom mode reduces boom down force for working on hard surfaces or for hydraulic hammer operation.
• Power boom mode maximizes digging force for more effective excavating

Lifting mode
When the Lifting mode is selected, lifting capacity is increased 7% by raising hydraulic pressure.
WORKING ENVIRONMENT
Comfortable Working Space

Wide spacious cab
Wide spacious cab includes 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.

Armrest with simple height adjustment function
A plunger and lock permits simple and fast adjustments for armrest 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sliding window glass (left side)</td>
<td></td>
</tr>
<tr>
<td>Remote intermittent wiper with windshield washer</td>
<td></td>
</tr>
<tr>
<td>Opening &amp; closing skylight</td>
<td></td>
</tr>
<tr>
<td>Lockout Tagout Ready</td>
<td></td>
</tr>
<tr>
<td>Tie Off Points Standard (ISO 14567)</td>
<td></td>
</tr>
<tr>
<td>Magazine box &amp; cup holder</td>
<td></td>
</tr>
<tr>
<td>Defroster (conforms to the ISO standard)</td>
<td></td>
</tr>
<tr>
<td>One-touch storable front window lower glass</td>
<td></td>
</tr>
</tbody>
</table>
New Monitor Panel Interface Design
An updated large high resolution LCD color monitor enables accurate and smooth work. The interface has been redesigned to display key machine information in a new user friendly interface. A rear view camera and a DEF level gauge display have been added to the default main screen. The interface has a function that enables the main screen mode to be switched, thus enabling the optimum screen information for the particular work situation to be displayed.

Switchable Display Modes
The main screen display mode can be changed by 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.

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
7. Auto climate controls
8. Engine coolant temperature gauge
9. Fuel gauge
10. DEF level caution lamp

Visual user menu
- Energy saving guidance
- Machine settings
- Aftertreatment devices regeneration
- SCR information
- Maintenance
- Monitor setting
- Message check
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 enabling the total fuel consumption to be reduced.

Operator Identification Function

An identification ID can be set up for individual operator, application or jobs, 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
**Large capacity air cleaner**
The larger air cleaner can extend air cleaner life during long-term operation and helps prevent early clogging, and resulting power loss. A radial seal design is used for reliability.

**Engine Access**
Large rear opening hood provides excellent maintenance and service access to key engine components.

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

**Easy access to engine oil filter and fuel drain valve**
Engine oil filter and fuel drain valve are remote mounted to improve accessibility.

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

**Air conditioner filter**
The air conditioner filter can be removed and installed without the use of tools for easy filter maintenance.

**Washable cab floormat**

**Sloping track frame**

**Long-life oils, filters**

<table>
<thead>
<tr>
<th>Component</th>
<th>Change 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>

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

**Diesel Exhaust Fluid (DEF) tank**
A large tank volume extends operating time before refilling and is installed on the right front platform for easy access. DEF tank and pump are separated for improved service access.

**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.

**Maintenance screen**

**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.
MAINTENANCE FEATURES

Drawbar Pull
The Komatsu designed final drives and undercarriage provide high drawbar pull for good maneuverability and performance when working on adverse grades or soft ground.

Working Mode Selection
The PC360LC-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 PC360LC-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Power Mode</td>
<td>• Maximum production, power &amp; 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/ Fine Control</td>
<td>• Increased lifting power &amp; fine control</td>
</tr>
<tr>
<td>B</td>
<td>Breaker Mode</td>
<td>• One way flow for hydraulic 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>

Grease Sealed Track
The PC360LC-11 uses grease sealed tracks for extended undercarriage life.

Large Displacement High Efficiency Pump
Large displacement hydraulic implement pumps provide high flow output at lower engine RPMs 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.
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 PC360LC-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.

General Features
- Secondary engine shut down switch at base of seat to shutdown the engine.
- Lock lever
- Retractable seat belt
- Tempered & tinted glass
- Large cab entrance step
- Left and right side handrails
- Seat belt caution indicator
- Large mirrors
- Slip-resistant plates
- Thermal and fan guards
- Pump/engine compartment partition
- Travel alarm
KOMATSU PARTS & SERVICE SUPPORT

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

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 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

Interval PM | 500 | 1000 | 1500 | 2000
---|---|---|---|---
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 AC FRESH & RECIRC AIR FILTERS | ✔ | ✔ | ✔ | ✔
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 | ✔ | ✔ | ✔ | ✔
REPLACE DEF TANK BREATHER ELEMENT | ✔ | ✔ | ✔ | ✔
CHECK OIL LEVEL IN DAMPER CASE, ADD WHEN NECESSARY | ✔ | ✔ | ✔ | ✔
REPLACE MAIN FUEL FILTER | ✔ | ✔ | ✔ | ✔
CHANGE SWING MACHINERY OIL | ✔ | ✔ | ✔ | ✔
REPLACE HYDRAULIC OIL FILTER ELEMENT | ✔ | ✔ | ✔ | ✔
CLEAN HYDRAULIC TANK STRAINER | ✔ | ✔ | ✔ | ✔
CHANGE FINAL DRIVE OIL | ✔ | ✔ | ✔ | ✔
REPLACE KCCV FILTER ELEMENT | ✔ | ✔ | ✔ | ✔
REPLACE DEF PUMP FILTER | ✔ | ✔ | ✔ | ✔
FACTORY TRAINED TECHNICIAN LABOR | ✔ | ✔ | ✔ | ✔
2 DPF Exchanges suggested at 4,500 Hrs and 9,000 Hrs.
2 SCR System Maintenance Services suggested at 4,500 Hrs. and 9000 Hrs.

* 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 2017 Komatsu America Corp.
KOMTRAX EQUIPMENT MONITORING

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

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

WHO
- KOMTRAX is standard equipment on all Komatsu construction products

KOMTRAX EQUIPMENT MONITORING

KOMTRAX®
For construction and compact equipment.

KOMTRAX Plus®
For production and mining class machines.
**SPECIFICATIONS**

**ENGINE**
- **Model:** Komatsu SAA6D114E-6*
- **Type:** Water-cooled, 4-cycle, direct injection
- **Aspiration:** Variable Geometry Turbocharger with air-to-air aftercooler and EGR
- **Number of cylinders:** 6
- **Bore:** 114 mm 4.49*
- **Stroke:** 144.5 mm 5.69*
- **Piston displacement:** 8.85 ltr
- **Horsepower:**
  - **Rated rpm:** 1950
  - **Governor:** All-speed control, electronic
  - **Fan drive method for radiator cooling:** Mechanical
- **EPA Tier 4 Final emissions certified**

**HYDRAULICS**
- **Type:** HydrunMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valve and pressure compensated valves, 6 selectable working modes
- **Main pump:**
  - **Type:** Variable displacement axial piston type
  - **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:**
  - **Implent circuits:** 37.3 MPa 380 kgf/cm² 5,400 psi
  - **Travel circuit:** 37.3 MPa 380 kgf/cm² 5,400 psi
  - **Swing circuit:** 27.9 MPa 285 kgf/cm² 4,050 psi
  - **Pilot circuit:** 3.2 MPa 33 kgf/cm² 470 psi
- **Hydraulic cylinders:**
  - (Number of cylinders – bore x stroke x rod diameter)
    - **Boom:** 2–140 mm x 1480 mm x 100 mm 5.5" x 56.3" x 3.9"
    - **Arm:** 1–160 mm x 1825 mm x 110 mm 6.3" x 71.9" x 4.3"
    - **Bucket:** for 3.2 m 10.5" and 4.0 m 13.2" Arms
      - **1–140 mm x 1285 mm x 100 mm 5.5" x 50.6" x 3.9"**
      - **for 2.54 m 8.4" Arm 1–150 mm x 1285 mm x 110 mm 5.9" x 50.6" x 4.3"**

**DRIVES AND BRAKES**
- **Steering control:** Two lever with pedals
- **Drive method:** Hydrostatic
- **Maximum drawbar pull:** 290 kN 29570 kgf 65,191 lbf
- **Gradeability:** 70%, 35°
- **Maximum travel speed (auto shift):**
  - **High:** 5.5 km/h 3.4 mph
  - **Mid:** 4.2 km/h 2.6 mph
  - **Low:** 3.2 km/h 2.0 mph
- **Service brake:** Mechanical disc brake
- **Parking brake:** Mechanical disc brake

**SWING SYSTEM**
- **Driven by:** Hydraulic motor
- **Swing lubrication:** Planetary gear
- **Swing circle lubrication:** Grease-bathed
- **Service brake:** Hydraulic lock
- **Holding brake/Swing lock:** Mechanical disc brake
- **Swing torque:** 11386 kgm 82,313 ft lbs

**UNDERCARRIAGE**
- **Center frame:** X-frame
- **Track frame:** Box-section
- **Track type:** Sealed
- **Track adjuster:** Hydraulic
- **Number of shoes (each side):** 48
- **Number of carrier rollers (each side):** 2
- **Number of track rollers (each side):** 8

**COOLANT & LUBRICANT CAPACITY**
- **Fuel tank:** 605 ltr 159.8 U.S. gal
- **Radiator:** 37 ltr 9.7 U.S. gal
- **Engine:** 35 ltr 9.2 U.S. gal
- **Final drive, each side:** 9.0 ltr 2.4 U.S. gal
- **Swing drive:** 13.7 ltr 3.6 U.S. gal
- **Hydraulic tank:** 188 ltr 49.7 U.S. gal
- **Diesel Exhaust Fluid (DEF) tank:** 39 ltr 10.3 U.S. gal

**SOUND PERFORMANCE**
- **Exterior – ISO 6395:** 103 dBA
- **Interior – ISO 6396:** 71 dBA

**OPERATING WEIGHT (APPROXIMATE)**
- **Operating weight includes 6500 mm 213° one-piece HD boom, 3185 mm 105° arm, SAE heaped 1.96 m³ 2.56 yd³ bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

**WORKING FORCES**
- **Arm Length**
  - **2540 mm 84°:**
    - **Bucket:** 229 kN 200 kN 220 kN
    - **digging force:** 23300 kgf / 51,370 lb 20400 kgf / 44,970 lb
    - **Arm:** 193 kN 165 kN 139 kN
    - **crowned force:** 19700 kgf / 43,430 lb 18800 kgf / 41,200 lb
  - **3185 mm 105°:**
    - **Bucket:** 259 kN 226 kN 227 kN
    - **digging force:** 26400 kgf / 58,200 lb 23200 kgf / 51,150 lb
    - **Arm:** 201 kN 171 kN 144 kN
    - **crowned force:** 20500 kgf / 45,190 lb 17400 kgf / 38,360 lb
  - **4020 mm 132°:**
    - **Bucket:** 229 kN 200 kN 220 kN
    - **digging force:** 23300 kgf / 51,370 lb 20400 kgf / 44,970 lb
    - **Arm:** 193 kN 165 kN 139 kN
    - **crowned force:** 19700 kgf / 43,430 lb 18800 kgf / 41,200 lb

**Component Weights**
- **Arm including bucket cylinder and linkage**
  - **3185 mm 105° arm assembly:** 1761 kg 3,882 lb
  - **4020 mm 132° arm assembly:** 1988 kg 4,383 lb
- **One piece HD boom including arm cylinder**
  - **6500 mm 213° boom assembly:** 3135 kg 6,912 lb
- **Boom cylinders x 2**
  - **259 kg 571 lb
- **Counterweight**
  - **6920 kg 15,255 lb**
Komatsu recommends the use of buckets sized to machine capacity. Buckets listed in the table above are sized appropriate to the specified material densities. Buckets exceeding recommended sizes may result in reduced performance.

### BACKHOE BUCKET, ARM AND BOOM COMBINATION

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Capacity</th>
<th>Teeth</th>
<th>Width</th>
<th>Weight</th>
<th>Tip Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Komatsu TL</td>
<td>0.93 m³</td>
<td>1.21 yd³</td>
<td>4</td>
<td>762 mm</td>
<td>30&quot;</td>
</tr>
<tr>
<td></td>
<td>1.18 m³</td>
<td>1.54 yd³</td>
<td>4</td>
<td>914 mm</td>
<td>36&quot;</td>
</tr>
<tr>
<td></td>
<td>1.44 m³</td>
<td>1.88 yd³</td>
<td>5</td>
<td>1067 mm</td>
<td>42&quot;</td>
</tr>
<tr>
<td></td>
<td>1.70 m³</td>
<td>2.22 yd³</td>
<td>5</td>
<td>1219 mm</td>
<td>48&quot;</td>
</tr>
<tr>
<td></td>
<td>1.96 m³</td>
<td>2.56 yd³</td>
<td>6</td>
<td>1372 mm</td>
<td>54&quot;</td>
</tr>
<tr>
<td>Komatsu HP</td>
<td>0.68 m³</td>
<td>0.89 yd³</td>
<td>3</td>
<td>610 mm</td>
<td>24&quot;</td>
</tr>
<tr>
<td></td>
<td>0.93 m³</td>
<td>1.21 yd³</td>
<td>4</td>
<td>762 mm</td>
<td>30&quot;</td>
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<tr>
<td></td>
<td>1.18 m³</td>
<td>1.54 yd³</td>
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<td>1067 mm</td>
<td>42&quot;</td>
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<td>2.22 yd³</td>
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<td>6</td>
<td>1372 mm</td>
<td>54&quot;</td>
</tr>
</tbody>
</table>

- 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
- Used with material weights up to 2,000 lb/yd³ – Light materials applications
- Not usable

Komatsu recommends the use of buckets sized to machine capacity. Buckets listed in the table above are sized appropriate to the specified material densities. Buckets exceeding recommended sizes may result in reduced performance.
### SPECIFICATIONS

#### WORKING RANGE

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>SAE rating</th>
<th>ISO rating</th>
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<tbody>
<tr>
<td>3185 mm</td>
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</tr>
<tr>
<td>10'5&quot;</td>
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</tr>
<tr>
<td>4020 mm</td>
<td>200 kN</td>
<td>23200 kg</td>
</tr>
<tr>
<td>13'2&quot;</td>
<td>20400 kg / 44,970 lb</td>
<td>23100 kg / 50,930 lb</td>
</tr>
<tr>
<td>Max. digging height</td>
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<td>10550 mm</td>
</tr>
<tr>
<td>Max. dumping height</td>
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<td>7480 mm</td>
</tr>
<tr>
<td>Max. digging depth</td>
<td>7380 mm</td>
<td>8180 mm</td>
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<td>Max. vertical wall digging depth</td>
<td>6480 mm</td>
<td>7280 mm</td>
</tr>
<tr>
<td>Max. digging depth for 8' level bottom</td>
<td>7180 mm</td>
<td>8045 mm</td>
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<tr>
<td>Max. digging reach</td>
<td>11100 mm</td>
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<tr>
<td>Min. swing radius</td>
<td>4310 mm</td>
<td>4320 mm</td>
</tr>
<tr>
<td>Bucket digging force at power max.</td>
<td>228 kN</td>
<td>227 kN</td>
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<tr>
<td>Arm crowd force at power max.</td>
<td>171 kN</td>
<td>144 kN</td>
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</table>
LIFT CAPACITIES

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

Conditions:
- 6500 mm 21' 3” one-piece boom
- Bucket: None
- Lifting mode: On

Arm: 3185 mm 10'5"
Shoes: 700 mm 28"

<table>
<thead>
<tr>
<th>Units</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>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
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<tr>
<td>6.1 m</td>
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</tbody>
</table>

*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.

LIFTING CAPACITIES

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

Conditions:
- 6500 mm 21' 3” one-piece boom
- Bucket: None
- Lifting mode: On

Arm: 3185 mm 10'5"
Shoes: 800 mm 31.5"

<table>
<thead>
<tr>
<th>Units</th>
<th>3.0 m 10'</th>
<th>4.6 m 15'</th>
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<tr>
<td>B</td>
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<td>Cs</td>
<td>Cf</td>
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## LIFT CAPACITIES

### LIFTING CAPACITY WITH LIFTING MODE

<table>
<thead>
<tr>
<th>Arm: 3185 mm 10'5&quot;</th>
<th>Shoes: 850 mm 33.5&quot;</th>
<th>Unit: kg lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong>: Reach from swing center</td>
<td><strong>B</strong>: Bucket hook height</td>
<td><strong>C</strong>: Lifting capacity</td>
</tr>
<tr>
<td><strong>Cf</strong>: Rating over front</td>
<td><strong>Cs</strong>: Rating over side</td>
<td><strong>Note</strong>: Rating at maximum reach</td>
</tr>
<tr>
<td>Conditions:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 6500 mm 21' 3&quot; one-piece boom</td>
<td>• Bucket: None</td>
<td>• Lifting mode: On</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Arm</strong>: 3185 mm 10'5&quot;</th>
<th><strong>Shoes</strong>: 850 mm 33.5&quot;</th>
<th><strong>Unit</strong>: kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong>: 3.0 m 10'</td>
<td>4.6 m 15'</td>
<td>6.1 m 20'</td>
</tr>
<tr>
<td><strong>B</strong>: 7.6 m 25'</td>
<td>6.1 m</td>
<td>4.6 m 15'</td>
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<td><strong>Cf</strong></td>
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<td><strong>Cs</strong></td>
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<td>11920</td>
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</tbody>
</table>
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### LIFTING CAPACITY WITH LIFTING MODE

<table>
<thead>
<tr>
<th>Arm: 4020 mm 13'2&quot;</th>
<th>Shoes: 700 mm 28&quot;</th>
<th>Unit: kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong>: Reach from swing center</td>
<td><strong>B</strong>: Bucket hook height</td>
<td><strong>C</strong>: Lifting capacity</td>
</tr>
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<tr>
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<th><strong>Arm</strong>: 4020 mm 13'2&quot;</th>
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### LIFTING CAPACITY WITH LIFTING MODE

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

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

**Arm**: 4020 mm 13' 2"  
**Shoes**: 800 mm 31.5"  
**Unit**: kg lb

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Cf</th>
<th>Cs</th>
<th>MAX</th>
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<tbody>
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</table>

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

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

**Arm**: 4020 mm 13' 2"  
**Shoes**: 855 mm 33.5"  
**Unit**: kg lb

<table>
<thead>
<tr>
<th></th>
<th>A</th>
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<th>C</th>
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</thead>
<tbody>
<tr>
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<td>10'</td>
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<td>7.6 m</td>
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<tr>
<td>25'</td>
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<tr>
<td>6.1 m</td>
<td>17000</td>
<td>17000</td>
<td>12300</td>
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<tr>
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<td>17500</td>
<td>16900</td>
<td>14400</td>
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<tr>
<td>4.6 m</td>
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<td>7470</td>
<td>5640</td>
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<td>0'</td>
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<td>16400</td>
<td>14200</td>
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</table>

*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 engine warm-up system
- 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
- Belt-driven suction fan
- Boom holding valves
- Carrier rollers, (2 each side)
- Converter, (2) x 12V
- Counterweight, 6920 kg
- Dry type air cleaner, double element
- Electric fuel priming pump
- Electric horn
- Engine, Komatsu SAA6D114E-6
- Engine coolant to -25°C -13°F
- EMMS monitoring system
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- 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
- Radiator and oil cooler dustproof net
- Rear reflectors
- Rearview monitoring system (1 camera)
- Revolving frame deck guard
- Revolving frame undercovers
- ROPS cab (ISO12117-2)
- Seat belt indicator
- Seat belt, retractable, 76mm
- 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, 800 mm
- Travel alarm
- Two boom mode settings
- Working lights, 2 (boom and RH front)
- Working mode selection system

OPTIONAL EQUIPMENT

- Arms
  - 3185 mm 10'5" arm assembly
  - 3185 mm 10'5" arm assembly with piping
  - 4020 mm 13'2" arm assembly
  - 4020 mm 13'2" arm assembly with piping
- Booms
  - 6500 mm 21'3" HD boom assembly
  - 6500 mm 21'3" HD boom assembly with piping
- Cab guards
  - Lower front window guard
  - Full front guard, OPG Level 1
  - Full front guard, OPG Level 2
  - Bolt-on top guard, OPG Level 2
- Counterweight, 7400 kg 16,315 lb
- Dry type air cleaner, double element
- Electric fuel priming pump
- Electric horn
- Engine, Komatsu SAA6D114E-6
- Engine coolant to -25°C -13°F
- EMMS monitoring system
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-filter 10 micron
- Grease sealed track chain
- High back air suspension seat, with heat
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- Working mode selection system

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.