**PC78US-11**

**Compact Hydraulic Excavator**

- **Tier 4 Final Engine**

**Photos may include optional equipment.**

<table>
<thead>
<tr>
<th><strong>Net Horsepower</strong></th>
<th><strong>Operating Weight</strong></th>
<th><strong>Bucket Capacity</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>68 HP @ 1,850 rpm</td>
<td>17,791–18,188 lbs.</td>
<td>0.12–0.26 yd³</td>
</tr>
<tr>
<td>51 kW @ 1,850 rpm</td>
<td>8070–8250 kg</td>
<td>0.09–0.20 m³</td>
</tr>
</tbody>
</table>
Photos may include optional equipment.

**WALK-AROUND**

**NET HORSEPOWER**
68 HP @ 1,850 rpm
51 kW @ 1,850 rpm

**OPERATING WEIGHT**
17,791–18,188 lbs.
8070–8250 kg

**BUCKET CAPACITY**
0.12–0.26 yd$^3$
0.09–0.20 m$^3$
PERFORMANCE AND VERSATILITY

Conventional boom and true tight tail swing for confined spaces with standard auxiliary hydraulics expand versatility in a productive and easy to transport design.

New engine and hydraulic technology helps improve operational efficiency and improves fuel consumption.*

A high output Komatsu SAA3D95E-1 engine provides a net output of 50.6 kW 68 HP. This engine is EPA Tier 4 Final emissions certified.

Viscous fan clutch improves fuel efficiency when max fan speed is not required.

Komatsu Diesel Oxidation Catalyst (KDOC) reduces particulate matter using passive regeneration 100% of the time.
No AdBlue®/DEF or DPF is required.

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

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

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

Rearview monitoring system (standard)

Equipment Management Monitoring System (EMMS) continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Enhanced working environment
• High back, suspension operator seat
• Integrated ROPS cab design
• Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard
• Aux jack and (2) 12V outlets

Ultra-short swing radius and conventional style boom allows the PC78US-11 to easily operate in confined space.

Wide access service doors provide easy access for ground level maintenance.

Standard auxiliary piping to run attachments.

Operator Identification System

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

Komatsu designed and manufactured components

Larger service doors improve maintenance accessibility with centralized ground-level filters relocated to a common area.

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

Standard 7” 2330mm blade redesigned to roll material for more efficient backfilling.

Standard pattern change valve

Bluetooth radio with wireless technology and USB

LED work lamps are standard equipment.

* All comparisons are to the prior model, unless otherwise stated.
KOMATSU NEW ENGINE TECHNOLOGIES

A New High Output 2.4-liter Engine
Komatsu’s new, in house-developed high output 2.4-liter engine can meet all user requirements. Its digging efficiency and environmental performance are top-of the class, offering both high power and low fuel consumption even with a more compact engine. Centralized ground-level access filters helps reduce maintenance time.

Improved Efficiency
Improved Total Vehicle Control promotes optimum performance under a wide variety of operational conditions. Improvements such as variable speed matching of engine speed according to hydraulic pump output, reduction of hydraulic pressure loss and a fan clutch help significantly reduce fuel consumption, while enabling higher operating speeds.

Technologies Applied to New Engine
Electronic control system
The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle and engine to control equipment in different 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.

Heavy-duty High-Pressure Common Rail 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 PM emissions. While this technology is already used in current engines, the new system realizes a higher-pressure injection, thereby reducing both PM emissions and fuel consumption at entire engine operating conditions.
Komatsu Diesel Oxidation Catalyst (KDOC)
The new Komatsu Diesel Oxidation Catalyst (KDOC) has an integrated design that does not interfere with daily operation. This smart and simplified system removes soot using 100% "passive regeneration" without the need for a Diesel Particulate Filter. The KDOC is a long-life design and requires no maintenance. For owners, this means lower owning and operating costs due to less complexity and seamless operation.

Cooled Exhaust Gas Recirculation (EGR)
Cooled EGR, a technology well-proven in existing Komatsu engines, helps reduce NOx emissions. These components promote reliable performance during the demanding work conditions of construction equipment.

Low Noise
A more compact engine produces space for a fan clutch system allowing engine and hydraulic system turning using a variable matching control system which reduces noise.

Surrounding noise

**Reduced 1.0 dB (A)**

Compared to the PC78US-10
LED Lamps
LED lamps are equipped on the boom and cab. The visibility under low light environment is improved, and work at night with ease.

INCREASED PRODUCTIVITY

Improved Digging Performance
Overall operating performance is improved by the higher digging speed and smooth integration of multiple operational controls. This reduces stress on the operator.

Productivity (90° dump loading)

<table>
<thead>
<tr>
<th>P mode</th>
<th>up to 9% increase</th>
</tr>
</thead>
</table>

Compared to the PC78US-10.

Improved multifunction operation
Quicker arm speed makes levelling work and teeth alignment easier and faster. With the higher digging speed and faster hoist swing and lift rate, even the toughest jobs are handled with ease.

Photo may include optional equipment.
Improved Blade Design
Improved blade efficiency
Improved blade design rolls material better for more efficient dozing work and backfilling.

Automatic travel speed change and travel switch
The travel speed selector switch installed on the blade control lever allows the operator to engage high speed travel. Once engaged, the travel speed automatically shifts up or down within the selected speed range.

Equipped with a blade as standard equipment
A blade for efficient back-filling and leveling work is equipped as standard.

Improved Auxiliary Hydraulic Circuit
Better hydraulic flow to attachments
The standard auxiliary hydraulic circuit now has up to 12% greater hydraulic flow.

Hydraulic flow to the attachment
up to 12%

Compared to the PC78US-10.

Automated Attachment Conversion Using Monitor
Equipped with universal piping for attachments such as breakers or crushers, conversion to low-pressure (one-way flow) mode requires only a push of the breaker mode switch on the monitor.
MAINTENANCE FEATURES

**Improved Serviceability**

Improved maintenance accessibility with larger service access doors.

**Easy to clean cooling unit area**

1. The auxiliary hydraulic circuit return filter has been relocated for easier ground-level access alongside the windshield washer tank
2. Centralized ground-level access with filters relocated to a common area
3. Easier access to side-by-side cooling package with enlarged panels and doors
4. Air conditioning condenser swings open for improved access to radiator for cleaning
Centralized ground-level access with filters relocated to a common area

The new layout centralizes fuel/oil filters at just the right height for easy access. This helps reduce the labor and stress involved in periodic inspections.

**Engine oil drain valve**

The new engine oil drain valve makes draining engine oil quick and easy.

**Improved fueling access**

Improved right-hand locking fuel tank cover provides easier ground-level access to fuel tank filler port.

The auxiliary hydraulic circuit return filter has been relocated for easier ground-level access alongside the windshield washer tank.

**Easy to clean, new floor mat**

Removing the floor mat for the cleaning is easy since it is not fixed by bolts.

**Closed-circuit cooling system**

This system not only makes cooling more efficient, but also requires minimal maintenance until the next coolant change.

**Fan belt auto-tensioner**

Maintenance-free fan belt auto-tensioner.

**Battery disconnect switch**

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

**Long-life oil, filter**

- Engine oil & engine oil filter: every 500 hours
- Hydraulic oil: every 5000 hours
- Hydraulic oil filter: every 1000 hours

**“Maintenance time caution lamp” display**

When the remaining time to maintenance becomes less than 30 hours*, the 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.
**SHORT SWING RADIUS**

**True Tight Tail Swing For Confined Areas**

Short implement swing radius

12’ 2" (3710 mm) boom raising angle of the PC78US-11 is larger than a conventional profile excavator. The result is reduced front implement swing radius.

Tight tail swing radius

4’ 7” 1390 mm short tail swing radius of the PC78US-11 allows the machine to work in more confined areas than a conventional machine.

Round Profile of both Front and Rear Portion of the Upper Structure

Komatsu tighttail hydraulic excavators allows the machine to work in surprisingly tight quarters.

- Minimum implement swing radius: 6’9” (2050 mm)
- Tail swing radius: 4’7” (1390 mm)
- True tight tail swing radius: 11’3” (3440 mm)

**Right Side Visibility**

Visibility on the right has been improved through modification of the front right cover.
Lock Lever Functionality

Lock lever
When lock lever is placed in lock position all hydraulic controls (Travel, swing, boom, arm, bucket and blade) are inoperable.

ROPS Cab (ISO 12117-2)
The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. The ROPS cab has high shock absorption performance, featuring excellent durability and impact strength. It also satisfies the requirements of ISO OPG top guard level 1 for falling objects. Combined with the retractable seat belt.

Rear View Monitoring System
The operator can view the rear of the machine with a color monitor screen.

Pattern Change Valve Standard
A pattern change valve is conveniently located below the cab, making switching from excavator controls to backhoe controls quick and easy.
**Improved Spacious Pressurized Cab**
Large comfortable cab equipped on this minimum radius machine for added operator comfort.

**Low interior noise reducing operator fatigue**
A comfortable low noise cab enables longer operation with less fatigue.

*Noise level at operator ears*

71 dB (A)

**Suspension seat**
The reclining seat has deep side supports for the operator. The backrest angle can be easily adjusted using a pull-up lever for the optimum operating posture.

**Multifunction stereo**
It has functions of AM/FM radio and USB and Bluetooth® wireless technology enabled products can be connected.

**Automatic Air Conditioner**
The automatic air conditioner allows the operator to easily and precisely set the cab atmosphere using the large LCD color monitor panel. The bi-level control function improves air flow and keeps the inside of the cab comfortable throughout the year.

**Low Vibration with Viscous Cab Mounts**
The PC78US-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.
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.

- Avoid Excessive Engine Idling
- Use Economy Mode to Save Fuel
- Avoid Hydraulic Relief Pressure
- Reduce Engine Speed During Long Travel to Save Fuel

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.

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 more easily.

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 have been added to the default main screen. The interface has a function that enables the main screen to be switched, thus enabling the most useful screen for the particular work situation to be displayed.

Indicators
- Auto-decelerator
- Working mode
- Travel speed
- Ecology gauge
- Camera display
- Engine coolant temperature gauge
- Hydraulic oil temperature gauge
- Engine Oil Filter Change
- Fuel gauge
- Service meter, clock
- Fuel consumption gauge
- Guidance icon
- Function switches

Basic operation switches
- Auto-decelerator
- Working mode selector
- Traveling selector
- Buzzer cancel
- Wiper
- Window washer

Visual user menu
- Energy saving guidance
- Machine settings
- Maintenance
- Monitor setting
- Mail check
**Komatsu Care program includes:**

The PC78US-11 comes standard with complimentary factory-scheduled maintenance for the first three years or 2,000 hours, whichever occurs first.*

**Planned maintenance intervals at:**

500/1,000/1,500/2,000-hour intervals. (250-hour initial interval for some products.) Complimentary maintenance interval includes: replacement of oils and fluid filters with genuine Komatsu parts, 50-point inspection, Komatsu Oil and Wear Analysis (KOWA) sampling/travel and mileage (distance set by distributor; additional charges may apply)

**Benefits of using Komatsu Care**

- Assurance of proper maintenance with OEM parts and service
- Increased uptime and efficiency
- Factory-certified technicians performing work
- Cost of ownership savings
- Transferable upon resale

<table>
<thead>
<tr>
<th>Planned maintenance interval</th>
<th>500</th>
<th>1,000</th>
<th>1,500</th>
<th>2,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOWA sampling – (engine, hydraulics, swing circle, 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>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Change engine oil</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Replace engine oil filter</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Replace fuel pre filter</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Clean air cleaner element</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Drain sediment from fuel tank</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Complete 50-point inspection form; leave pink copy with customer or in cab</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Reset monitor panel maintenance counter for appropriate items</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Replace main fuel filter</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Factory-trained technician labor</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*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
- Help 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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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 aids in making repair or replacement decisions

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

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

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

GET THE WHOLE STORY WITH KOMTRAX®

WHAT
- For production and mining class machines.
- For construction and compact equipment.

KOMTRAX EQUIPMENT MONITORING

Monthly Operational Analysis

Location/Hours/Working

Fleet Working Status

KOMTRAX®
For construction and compact equipment.

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

### HYDRAULICS

**Model:** Komatsu SAA3D95E-1

**Type:** Water-cooled, 4-cycle, direct injection

**Aspiration:** Turbocharged, aftercooled, cooled ESP

**Number of cylinders:** 3

**Bore:** 95 mm 3.74"

**Stroke:** 115 mm 4.52"

**Piston displacement:** 2.45 L 149.5 in³

**Horsepower:**

- SAE J1995: Gross 50.7 kW 68.0 HP
- ISO 9249 / SAE J1349: Net 50.6 kW 67.9 HP

**Rated rpm:** 1850

**Fan drive method for radiator cooling:** Mechanical with viscous fan clutch

**Governor:** All-speed control, electronic

*EPA Tier 4 Final emissions certified

**Type:** HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load-sensing valves and pressure-compensated valves

**Number of selectable working modes:** 6

**Main pumps:**

- Pumps for: Boom, arm, bucket, swing, and travel circuits
- Type: Variable displacement, axial piston
- Maximum flow: 168 L/min 44.4 gal/min
- Pumps for: Blade, Fixed displacement gear
- Maximum flow: 63 L/min 17.0 gal/min

**Hydraulic motors:**

- Travel: 2 x piston motor with parking brake
- Swing: 1 x axial piston motor with swing holding brake

**Relief valve setting:**

- Implement circuits: 29.4 MPa 300 kgf/cm² 4,264 psi
- Travel circuits: 29.9 MPa 305 kgf/cm² 4,337 psi
- Swing circuits: 21.9 MPa 223 kgf/cm² 3,176 psi
- Pilot circuits: 3.2 MPa 33 kgf/cm² 464 psi
- Blade circuits (Raise): 12.3 MPa 125 kgf/cm² 1,784 psi
- Blade circuits (Lower): 21.1 MPa 215 kgf/cm² 3,060 psi

**Hydraulic cylinders:**

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

- Boom: 110 mm x 858 mm x 65 mm 3.53" x 33.8" x 2.56"
- Arm: 95 mm x 861 mm x 60 mm 3.74" x 33.9" x 2.36"
- Bucket: 85 mm x 710 mm x 55 mm 3.35" x 27.95" x 2.17"
- Blade: 130 mm x 130 mm x 65 mm 5.12" x 5.12" x 2.56"

**Auxiliary hydraulics (two-stage relief):**

- Two-way: 138 L/min 36.5 gal/min
- Relief: 26.51 MPa 3,830 psi
- One-way: 80 L/min 21.1 gal/min
- Relief in breaker mode: 17.17 MPa 2,490 psi

### SWING SYSTEM

**Driven by:** Hydraulic motor

- Swing reduction: Planetary motor
- Swing circle lubrication: Grease-bathed
- Swing lock: Mechanical disc brake
- Swing speed: 10 rpm

### UNDERCARRIAGE

**Center frame:** X-frame leg

**Track frame:** Box-section

**Track type:** Sealed

**Track adjuster:** Hydraulic

**Number of shoes (each side):** 39

**Number of carrier rollers (each side):** 1

**Number of track rollers (each side):** 5

### COOLANT & LUBRICANT CAPACITY

**Fuel tank:** 125 L 33 U.S. gal

**Radiator:** 18 L 4.8 U.S. gal

**Engine:** 10.5 L 2.7 U.S. gal

**Final drive, each side:** 1.1 L 0.29 U.S. gal

**Swing drive:** 2.0 L 0.52 U.S. gal

**Hydraulic tank:** 56 L 14.8 U.S. gal

### OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 3710 mm 12'2" one-piece boom, 2250 mm 7'5" arm, ISO 7451 heaped 0.20 m³ 0.26 yd³ bucket, blade, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

<table>
<thead>
<tr>
<th>Track Shoes</th>
<th>Operating Weight</th>
<th>Ground Pressure (ISO 16754)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road liner 450 mm 18&quot;</td>
<td>8070 kg 17,791 lbs.</td>
<td>35.8 kPa / 0.36 kgf/cm² 5.20 psi</td>
</tr>
<tr>
<td>Triple grouser 450 mm 18&quot;</td>
<td>7930 kg 17,483 lbs.</td>
<td>35.8 kPa / 0.36 kgf/cm² 5.20 psi</td>
</tr>
<tr>
<td>Triple grouser 600 mm 24&quot;</td>
<td>8260 kg 18,188 lbs.</td>
<td>26.8 kPa / 0.27 kgf/cm² 3.90 psi</td>
</tr>
<tr>
<td>Rubber track 450 mm 18&quot;</td>
<td>7910 kg 17,438 lbs.</td>
<td>35.0 kPa / 0.35 kgf/cm² 5.10 psi</td>
</tr>
</tbody>
</table>

### WORKING FORCES

<table>
<thead>
<tr>
<th>ISO rating</th>
<th>Bucket digging force</th>
<th>Arm crowd force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket digging force</td>
<td>61.3 kN / 6250 kgf / 13,781 lbs.</td>
<td>34.5 kN / 3518 kgf / 7,756 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAE rating</th>
<th>Bucket digging force</th>
<th>Arm crowd force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket digging force</td>
<td>51.9 kN / 5300 kgf / 11,688 lbs.</td>
<td>32.8 kN / 3350 kgf / 7,373 lbs.</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

- **Boom length**: 3710 mm (12'2'')
- **Arm length**: 2250 mm (7'5'')
- **Overall length**: 6295 mm (20'8'')
- **Overall height (to top of boom)**: 2940 mm (9'8'')
- **Overall width**: 2330 mm (7'8'')
- **Overall height (to top of cab)**: 2740 mm (9'1'')
- **Ground clearance, counterweight**: 785 mm (2'7'')
- **Ground clearance, minimum**: 410 mm (1'4'')
- **Tail swing radius**: 1390 mm (4'7'')
- **Track length on ground**: 2235 mm (7'4'')
- **Track length**: 2890 mm (9'6'')
- **Track gauge**: 1870 mm (6'2'')
- **Width of crawler**: 2320 mm (7'7'')
- **Shoe width**: 450 mm (1'6'')
- **Machine engine hood height**: 2060 mm (6'9'')
- **Machine cab width**: 2330 mm (7'8'')
- **Distance, swing center to rear end**: 1885 mm (6'2'')

* : Dimension of the machine with the road liner shoes.

---

**BACKHOE BUCKET, ARM AND BOOM COMBINATIONS**

<table>
<thead>
<tr>
<th>Bucket Capacity (heaped)</th>
<th>SAE, PCSA</th>
<th>CECE</th>
<th>Width</th>
<th>Weight</th>
<th>Number of Teeth</th>
<th>Arm Length 2100 mm (6'11'')</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.09 m³</td>
<td>0.11 m³</td>
<td>0.10 m³</td>
<td>350 mm</td>
<td>13.7''</td>
<td>450 mm</td>
</tr>
<tr>
<td>0.12 m³</td>
<td>0.16 m³</td>
<td>0.11 m³</td>
<td>0.14 m³</td>
<td>450 mm</td>
<td>17.7''</td>
<td>550 mm</td>
</tr>
<tr>
<td>0.20 m³</td>
<td>0.26 m³</td>
<td>0.18 m³</td>
<td>0.24 m³</td>
<td>550 mm</td>
<td>21.7''</td>
<td>650 mm</td>
</tr>
</tbody>
</table>
SPECIFICATIONS

WORKING RANGE

**PC78US-11**

With road liner

<table>
<thead>
<tr>
<th>Specification</th>
<th>SAE Rating</th>
<th>ISO Rating</th>
</tr>
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<tbody>
<tr>
<td>Bucket digging force</td>
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<td>61.3 kN</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>33.3 kN</td>
<td>34.5 kN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification</th>
<th>SAE Rating</th>
<th>ISO Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket digging force</td>
<td>5440 kg / 11,982 lb</td>
<td>6250 kg / 13,780 lb</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>3380 kgf / 7,486 lb</td>
<td>3520 kgf / 7,756 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Measurement</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom Length</td>
<td>3710 mm</td>
<td>12'2&quot;</td>
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<td>B Maximum dumping height</td>
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<td>D Maximum vertical wall digging depth</td>
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<td>E Max. digging depth of cut for 8' level bottom</td>
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<td>F Maximum digging reach</td>
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<td>G Maximum digging reach at ground</td>
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<td>H Minimum digging reach at ground</td>
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<td>I Minimum swing radius</td>
<td>2050 mm</td>
<td>6'9&quot;</td>
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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

**Arm: 2250mm (7'5")**  
**Bucketless (without cylinder and links)**  
**Shoe width: 450 mm Road Liner**  
**Blade on ground**

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**Arm: 2250mm (7'5")**  
**Bucketless (without cylinder and links)**  
**Shoe width: 450 mm Road Liner**  
**Blade off ground**

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*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.*
**SPECIFICATIONS**

![Lifting Capacity with Lifting Mode Diagram]

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

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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  
 rated at maximum reach

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**Arm: 2250mm (7'5")**  
**Bucketless (without cylinder and links)**  
**Shoe width: 450 mm Triple grouser**  
**Blade on ground**

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**Arm: 2250mm (7'5")**  
**Bucketless (without cylinder and links)**  
**Shoe width: 450 mm Triple grouser**  
**Blade off ground**

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<tr>
<th>A</th>
<th>1.5 m (4'11&quot;)</th>
<th>2.0 m (6'7&quot;)</th>
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* 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.

---
**SPECIFICATIONS**

### 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

![Lifting Capacity Diagram](image-url)

*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.*

Arm: 2250mm (7'6")  
Bucketless (without cylinder and links)  
Shoe width: 600 mm Triple grouser  
Blade on ground

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- **GL**
  - Shoe width: 600 mm Triple grouser

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- **GL**
  - Shoe width: 600 mm Triple grouser

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*Note: The diagrams and tables above are illustrative and should be used for reference only. For specific load ratings and capacities, consult the manufacturers' specifications or contact a qualified professional.*

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**References:**  
2. Equipment Operation and Maintenance Practices.  
3. Load Capacity Chart Design Specifications.”
STANDARD EQUIPMENT

ENGINE:
- Komatsu SAA3D95E-1
- Auto deceleration
- Air cleaner, double element with auto dust evacuator
- B20 Biodiesel compatible*
- Cooling system viscous fan clutch, suction type
- Cooling system with expansion tank
- Engine oil-pan drain valve
- Fixed turbocharger
- Komatsu Diesel Oxidation Catalyst (KDOC)

ELECTRICAL SYSTEM:
- Alternator, 24 V/60 A
- Batteries, 2 x 12 V/55 Ah
- Battery disconnect switch
- Lock out/tag out provisioned
- Starting motor 24 V/4.5 kW

GUARDS AND COVERS:
- Fan guard
- Pump/engine partition cover
- Diesel ground level fuel fill and hydraulic tank fill cap are under lockable side covers
- Car body swivel guards

OPERATOR ENVIRONMENT:
- 12 V x 2 power supply
- Attachment flow switching through monitor
- Auto climate control
- Auto idle shutdown
- Cab includes: antenna, multifunction audio with USB and Bluetooth wireless technology, floor mat, intermittent front windshield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield
- Handrails
- Komtrax 5.0 (cellular 4G system)
- LED working light on boom
- LED working light on cab
- Lock lever auto lock function
- Monitor panel
- Operator identification function
- Rearview mirrors (LH, rear)
- Rearview monitoring system
- ROPS cab (ISO 12117-2)
- Seat belt, 78 mm (3.1”)
- Suspension seat
- Swing holding brake
- Travel alarm
- Travel Hi/Lo switch on blade control lever

HYDRAULIC SYSTEM:
- Dual stage relief valve
- Proportional control on floor for auxiliary hydraulics
- Hydraulic control unit-1 additional actuator
- One-way/two-way auxiliary hydraulic flow
- Operation pattern change-over valve (two-way, ISO/BH)
- One-variable piston pump and one gear pump
- Auxiliary circuit return filter and accumulator
- Automatic swing brake
- Automatic load sensing two speed travel

WORK EQUIPMENT:
- Blade 2330 mm (7’7”)
- Counterweight, 805 kg 1,775 lbs.

UNDERCARRIAGE:
- Triple grouser shoe, 450 mm 18”

OPTIONAL EQUIPMENT

GUARDS AND COVERS:
- Bolt-on top guard
- Cab front guard
- Full height front window mesh guard (Level 1)

WORK EQUIPMENT:
- Boom,
  - 3405 mm 11’2” swing type
- Arm,
  - 2100 mm 6’11” arm assembly with provision for hydraulic thumb
- Blade,
  - 2470 mm 8’1” wide blade (requires 600 mm 24” shoes)

UNDERCARRIAGE:
- Shoes:
  - 450 mm 18” Road Liner shoes
  - 600 mm 24” Triple grouser shoes
- Rubber belt track:
  - 450 mm 18”

ATTACHMENT OPTIONS

- Buckets
- Couplers
- Thumbs
- Breakers

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

*Up to 20% blended biodiesel fuel and paraffine fuel can be used. Please consult your Komatsu distributor for detail.