Komatsu

PC78US-8

NET HORSEPOWER
41 kW 55 HP

OPERATING WEIGHT
7365 kg 16,240 lb

Photo may include optional equipment.
Performance and Versatility

- Standard auxiliary hydraulics
- Five working modes: Power, Economy, Lifting, Attachment, Breaker
- Three track options: rubber, steel, roadliner
- Automatic two-speed travel
- ISO/SAE pattern change valve

Service and Maintenance

- Wide-opening engine hood and side covers
- Side-by-side radiator and oil cooler are easily inspected
- Extended lubrication intervals
- Ground level maintenance
- Easy access to engine oil filter, engine main fuel filter, and fuel drain valve

KOMTRAX equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.
Operator Comfort

- Large cab with air conditioner
- Fully adjustable suspension seat with retractable seat belt
- Pilot proportional joystick controls are low effort
- Easy-to-see 7” multi-function color monitor
- Low-noise cab

Value, Durability, and Strength

- KOMTRAX® wireless equipment monitoring system
- High strength X-track frame
- Castings are used for boom foot and tip
- O-ring face seal hydraulic fittings
- Moisture/dust resistant electrical connectors

Peace of Mind

- Spacious cab with excellent visibility
- Neutral engine start system
- Thermal and fan guards
- Low emission Komatsu engine with dual element air cleaner
- One key operates the ignition and all machine locks

Photos may include optional equipment.
Operator Station

- Spacious cab with unobstructed floor provides the operator with ample leg room
- Large travel pedals
- Upper rail sliding door
- Air conditioning provides a comfortable operating environment
- Fully adjustable suspension seat reduces operator fatigue
- PPC joystick controls are low effort and provide fine control
- 7” color monitor is easy to see and operate
**Tight Tail Swing**
The operator can focus more on the work in front and worry less about rear swing clearance, even in confined areas with only an 80 mm 3.1" projection over the tracks.

**Pattern Change Valve**
Whether you are comfortable with ISO or SAE, you can easily change from one to the other.

**Excellent Visibility**
The operator’s station design allows the operator to maintain a 360° field-of-view.

**7" Color LCD Monitor**
The liquid crystal display can be easily read at various angles and lighting conditions. Simple and easy to operate switches. Industry-first function keys facilitate multi-function operations. Displays data in 12 languages.

**Ground Level Maintenance**
With the left and right side service doors, it is possible to access the major maintenance points from ground level.

**Side-by-side Cooling**
Since oil cooler, aftercooler and radiator are arranged side-by-side, it is easy to clean, remove, and install them. Radiator, aftercooler, and oil cooler made of aluminum have high cooling efficiency and are easily recycled.

**Neutral Engine Start System**
Locks out drives and hydraulics during machine start up.

**Manual Selector Valve**
Allows the operator to switch between one-way (Breaker) and two-way (Thumb) auxiliary hydraulic flow.

**Three Track Options Available**
- Rubber
- Steel
- Roadliner

**Extended Maintenance Intervals**
- Lubricate swing circle: 500 hrs
- Lubricate boom & arm: 500 hrs
- Replace engine oil and filter: 500 hrs
- Replace fuel pre-filter cartridge: 500 hrs
- Replace fuel main filter: 1000 hrs
- Replace hydraulic filter: 1000 hrs
**SPECIFICATIONS**

**ENGINE**
- **Model**: Komatsu SAA4D95LE-5*
- **Type**: Water cooled, 4-cycle, direct injection
- **Aspiration**: Turbocharged, and air-to-air aftercooled
- **Number of cylinders**: 4
- **Piston displacement**: 3.26 ltr 199 in³
- **Net (ISO 9249/SAE J1349)**: 41 kW 55 HP @ 1950 rpm

*EPA Interim Tier 4 and EU Stage 3A certified.

**ELECTRICAL SYSTEM**
- **Operating voltage**: 24 V
- **Battery**: 55 Ah/2 x 12 V
- **Alternator**: .35 A
- **Starter**: 4.5 kW

**HYDRAULIC SYSTEM**
- **Type**: HydrauMind (Hydraulic Mechanical Intelligence New Design) system, Closed-center system with load-sensing valve and pressure-compensated valve

**MAIN PUMPS**
- **Type**: Variable displacement, axial piston
  - **Maximum flow**: 160 ltr/min 42.3 U.S. gal/min
- **Type**: Fixed displacement gear
  - **Maximum flow**: 63 ltr/min 16.6 U.S. gal/min

**HYDRAULIC MOTORS**
- **Travel**: 2 x piston motor with parking brake
- **Swing**: 1 x piston motor with swing holding brake

**RELIEF VALVE SETTING**
- **Implement, travel circuit**: 26.5 MPa 270 kgf/cm² 3,840 psi
- **Swing circuit**: 20.6 MPa 210 kgf/cm² 2,990 psi
- **Blade circuit (Raise)**: 12.7 MPa 130 kgf/cm² 1,850 psi
- **(Lower)**: 21.1 MPa 215 kgf/cm² 3,060 psi

**PERFORMANCE**
- **Travel speed**
  - **High**: 5.0 km/hr 3.1 mph
  - **Low**: 2.9 km/hr 1.8 mph
- **Swing speed**: 10 rpm
- **Ground pressure**: 0.34 kgf/cm² 4.83 psi
- **Max. drawbar pull**: 66.9 kN 6820 kgf 15,050 lbf
- **Gradeability**: 35°
- **Bucket digging force (ISO)**: 6250 kg 13,780 lb
- **Arm crowd force (ISO)**: 3520 kg 7,760 lb

**SWING SYSTEM**
- **Driven by**: Hydraulic motor
- **Swing reduction**: Planetary motor
- **Swing circle lubrication**: Grease gear
- **Swing lock**: Mechanical disc brake

**DRIVES AND BRAKES**
- **Steering control**: Two levers with pedals
- **Drive method**: Fully hydrostatic
- **Service brake**: Hydraulic lock
- **Parking brake**: Mechanical disc brake

**UNDERCARRIAGE**
- **Center frame**: X-frame
- **Track frame**: Box-section
- **Track type**: Sealed track
- **Track adjuster**: Hydraulic
- **Number of carrier rollers (each side)**: 1
- **Number of track rollers (each side)**: 5

**REFILL CAPACITIES**
- **Fuel tank**: 125 ltr 33.0 U.S. gal
- **Radiator**: 10 ltr 2.6 U.S. gal
- **Engine**: 11.0 ltr 2.9 U.S. gal
- **Final drive, each side**: 1.1 ltr 0.3 U.S. gal
- **Swing drive**: 2.0 ltr 0.5 U.S. gal
- **Hydraulic tank**: 56 ltr 14.8 U.S. gal

**OPERATING WEIGHT (APPROXIMATE)**
- **Operating weight including 3710 mm 12'2" one-piece boom, 2250 mm 7'5" arm, SAE heaped 0.28 m³ 0.37 yd³ backhoe bucket, cab, rubber shoe, blade, rated capacity of lubricants, coolant, full fuel tank, operator, and other standard equipment.**
- **Operating weight**: 7365 kg 16,240 lb
**COMPACT HYDRAULIC EXCAVATOR**

**PC78US-8**

**DIMENSIONS**

| A | Overall length | 6295 mm | 20'8" |
| B | Overall width  | 2330 mm | 7'8"  |
| C | Overall height | 2730 mm | 8'11" |
| D | Tail swing radius | 1240 mm | 4'1"  |
| E | Crawler length  | 2840 mm | 9'4"  |
| F | Track gauge     | 1870 mm | 6'2"  |
| G | Width of crawler | 2320 mm | 7'7"  |
| H | Track shoe width | 450 mm  | 17.7" |
| I | Machine cab height | 1835 mm | 6'0"  |
| J | Machine cab width | 2330 mm | 7'8"  |
| K | Distance swing center to rear end | 1405 mm | 4'7"  |

* Including grouser height

**WORKING RANGE**

| A | Maximum digging height | 7600 mm | 24'11" |
| B | Maximum dumping height | 5500 mm | 18'1" |
| C | Maximum digging depth  | 4710 mm | 15'5" |
| D | Maximum vertical wall digging depth | 4030 mm | 13'3" |
| E | Maximum digging depth of cut for 2440 mm 8" level | 4430 mm | 14'6" |
| F | Maximum digging reach  | 6620 mm | 22'8" |
| G | Maximum digging reach at ground | 6790 mm | 22'3" |
| H | Minimum digging reach at ground | 1735 mm | 5'8"  |
| I | Minimum swing radius   | 2050 mm | 6'9"  |

**LIFTING CAPACITY**

<table>
<thead>
<tr>
<th>Blade on ground</th>
<th>1.5 m 4'11&quot;</th>
<th>3.0 m 9'10&quot;</th>
<th>4.5 m 14'9&quot;</th>
<th>Maximum Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm Length</td>
<td>Front</td>
<td>Side</td>
<td>Front</td>
<td>Side</td>
</tr>
<tr>
<td>2250 mm 7'5&quot;</td>
<td>1490* 3290*</td>
<td>1260 2780*</td>
<td>1420* 3140*</td>
<td>1150 2540*</td>
</tr>
<tr>
<td>3 m 9'10&quot;</td>
<td>1870* 4130*</td>
<td>1870* 4130*</td>
<td>1570* 3470*</td>
<td>1230 2710*</td>
</tr>
<tr>
<td>0 m 0&quot;</td>
<td>3320* 7330*</td>
<td>2020 4460*</td>
<td>2090* 4600*</td>
<td>1060 2350*</td>
</tr>
<tr>
<td>-2 m 6'7&quot;</td>
<td>4230* 9330*</td>
<td>4230* 9330*</td>
<td>3010* 6640*</td>
<td>1950 4300*</td>
</tr>
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*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping load.*
### STANDARD EQUIPMENT
- 7” color multi-function monitor
- Additional counterweight, 220 kg 485 lb
- Air cleaner, dry type, double element with auto dust evacuator
- Alternator, 35A
- Arm, 2250 mm 7’5” arm assembly
- Automatic air conditioner
- Automatic two-speed travel control
- Auxiliary hydraulics with selector valve
- Backfill blade
- Batteries, 55Ah/2 x 12V
- Boom, 3710 mm 12’2”
- Cab which includes: floor mat, intermittent front windshield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield
- Cooling fan, suction type
- KOMTRAX®
- Rearview mirrors (LH, rear)
- Starting motor 4.5 kW
- Suspension seat with 78 mm 3” wide retractable seat belt
- Travel alarm
- Work light on boom
- Work light on cab

### OPTIONAL EQUIPMENT
- Additional work light on cab
- Shoes
  - 450 mm 17.7” rubber shoe
  - 450 mm 17.7” Roadliner
  - 450 mm 17.7” triple grouser
  - 600 mm 23.6” triple grouser