

# KOMATSU®

## PC228USLC-10

Tier 4 Interim Engine

PC228USLC

### NET HORSEPOWER

158 HP @ 2000 rpm  
116 kW @ 2000 rpm

### OPERATING WEIGHT

55,336–54,123 lb  
24550–25100 kg

### BUCKET CAPACITY

0.66–1.57 yd<sup>3</sup>  
0.50–1.20 m<sup>3</sup>



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT



PC228USLC

# WALK-AROUND

PC228USLC-10



Photos may include optional equipment



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## CONVENTIONAL PERFORMANCE IN A TIGHT TAIL BODY

**Rounded cab profile** allows the cab to swing within the same swing radius as the counterweight for true tight tail performance.

**New engine and hydraulic pump control technology** improves operational efficiency and lowers fuel consumption by up to 4%.

**A powerful Komatsu SAA6D107E-2 engine** provides a net output of 116 kW **158 HP**. This engine is EPA Tier 4 Interim and EU stage 3B emissions certified.

**Komatsu Variable Geometry Turbocharger (KVGT)** uses a hydraulic actuator to provide proper air flow under all speed and load conditions.

**Komatsu Diesel Particulate Filter (KDPF)** captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

**Komatsu's Closed Center Load Sensing (CLSS)** hydraulic system provides quick response and smooth operation to maximize 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 "Eco-Guidance" for fuel efficient operation
- Enhanced attachment control
- Aux jack and (2) 12V outlets

### 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, heated, and air suspension operator seat
- Integrated ROPS cab design (ISO 12117-2)
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard (ISO 10262)



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

**Guardrails (standard)** provide convenient access to the upper structure.

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

### Komatsu designed and manufactured components

**Side by side cooler design** provides easy access to service and clean the cooler assembly.

## KOMTRAX®

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.



## ENGINE

Model..... Komatsu SAA6D107E-2\*  
 Type..... Water-cooled, 4-cycle, direct injection  
 Aspiration..... Turbocharged, air-to-air aftercooled  
 Number of cylinders..... 6  
 Bore..... 107 mm **4.21"**  
 Stroke..... 124 mm **4.88"**  
 Piston displacement..... 6.69 ltr **408 in<sup>3</sup>**  
 Horsepower:  
 SAE J1995.....Gross 123 kW **165 HP**  
 ISO 9249 / SAE J1349.....Net 116 kW **158 HP**  
 Rated rpm..... 2000  
 Governor..... All-speed control, electronic  
 Lubrication system:  
 Method.....Gear pump, force-lubrication  
 Filter..... Full-flow  
 Air cleaner..... Air cleaner, double element and auto dust evacuator

\*EPA Tier 4 Interim and EU stage 3B emissions certified



## HYDRAULICS

Type..... HydraMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valve and pressure compensated valve  
 Main pump:  
 Type.....Variable capacity piston type  
 Pumps for.....Boom, arm, bucket, swing, and travel circuits  
 Maximum flow..... 475 ltr/min **125.5 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:  
 Travel..... 37.7 MPa 380 kgf/cm<sup>2</sup> **5,400 psi**  
 Pilot circuit..... 3.2 MPa 33 kgf/cm<sup>2</sup> **470 psi**  
 Implement circuits..... 37.3 MPa 380 kgf/cm<sup>2</sup> **5,400 psi**  
 Swing circuit..... 29.4 MPa 299 kgf/cm<sup>2</sup> **4,264 psi**  
 Hydraulic cylinders:  
 (Number of cylinders – bore x stroke x rod diameter)  
 Boom . 2–120 mm x 1385 mm x 85 mm **4.7" x 54.5" x 3.3"**  
 Arm ..... 1–135 mm x 1490 mm x 95 mm **5.3" x 58.7" x 3.7"**  
 Bucket.. 1–115 mm x 1120 mm x 80 mm **4.5" x 44.1" x 3.2"**



## DRIVES AND BRAKES

Steering control..... Two levers with pedals  
 Drive method..... Fully hydrostatic  
 Maximum drawbar pull..... 202 kN 20600 kgf **45,410 lbf**  
 Maximum travel speed: High..... 5.5 km/h **3.4 mph**  
 Medium..... 4.1 km/h **2.5 mph**  
 Low..... 3.0 km/h **1.9 mph**  
 Service brake..... Hydraulic lock  
 Parking brake..... Mechanical disc



## SWING SYSTEM

Driven by..... Hydraulic motor  
 Swing reduction..... Planetary gear  
 Swing circle lubrication..... Grease-bathed  
 Swing lock..... Mechanical disc brake  
 Swing speed..... 11.0 rpm  
 Swing torque..... 6656 kg•m **48,124 ft lbs**



## UNDERCARRIAGE

Center frame..... X-frame leg  
 Track frame..... Box-section  
 Track type..... Sealed  
 Track adjuster..... Hydraulic  
 Number of shoes (each side)..... 49  
 Number of carrier rollers (each side)..... 2  
 Number of track rollers (each side)..... 9



## COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 310 ltr **82 U.S. gal**  
 Radiator..... 30 ltr **7.9 U.S. gal**  
 Engine..... 23.1 ltr **6.1 U.S. gal**  
 Final drive, each side..... 5.0 ltr **1.4 U.S. gal**  
 Swing drive..... 6.5 ltr **1.7 U.S. gal**  
 Hydraulic tank..... 126 ltr **33.3 U.S. gal**



## OPERATING WEIGHT (APPROXIMATE)

Operating weight including 5700 mm **18'8"** one-piece boom, 2925 mm **9'7"** arm, SAE heaped 0.80 m<sup>3</sup> **1.05 yd<sup>3</sup>** backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure
600 mm	24130 kg	0.51 kg/cm <sup>2</sup>
<b>24"</b>	<b>53,195 lb</b>	<b>7.28 psi</b>
700 mm	24395 kg	0.44 kg/cm <sup>2</sup>
<b>28"</b>	<b>53,785 lb</b>	<b>6.21 psi</b>
800 mm	24675 kg	0.39 kg/cm <sup>2</sup>
<b>31.5"</b>	<b>54,405 lb</b>	<b>5.62 psi</b>



## WORKING FORCES

	Arm Length	2925 mm 9'7"
ISO rating	Bucket digging force	149 kN
	at power max	15200 kgf / <b>33,500 lb</b>
ISO rating	Arm crowd force	108 kN
	at power max	11000 kgf / <b>24,250 lb</b>
SAE rating	Bucket digging force	138 kN
	at power max	14100 kgf / <b>31,085 lb</b>
SAE rating	Arm crowd force	101 kN
	at power max	10300 kgf / <b>22,710 lb</b>



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