PC130-8

HYDRAULIC EXCAVATOR

HORSEPOWER
Gross: 72.1 kW (96.6 HP) @ 2200 rpm
Net: 68.4 kW (91.7 HP) @ 2200 rpm

OPERATING WEIGHT
12380–12740 kg (27,300–28,100 lb)

BUCKET CAPACITY
0.18–0.6 m³ (0.24–0.78 yd³)

Photo may include optional equipment.

Materials and specifications are subject to change without notice.

KOMATSU is a trademark of Komatsu Ltd. Japan.
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WALK-AROUND

Ecology and Economy Features
- Low emission engine
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA4D95LE-5 provides 68.4 kW 91.7 HP. This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

- Low operation noise
  The dynamic noise is reduced providing low noise operation.

See pages 4 and 5.

Productivity Features
- Larger maximum drawbar pull
- Mode selection
  - Economy mode improves fuel consumption.
  - Eco-gauge for energy-saving operations
  - Extended idling caution for fuel conservation

See page 5.

Safety Design
- ROPS cab (ISO 12117-2)
- Slip-resistant plates for safe work on machine
- Safety enhancement with large side-view, sidewise, rear and front under-view mirrors added.
- Rear view monitoring system for easy checking behind the machine (optional)

See pages 6 and 7.

Large TFT LCD Monitor
- Easy-to-see and use 7” large multi-function color monitor
- Can be displayed in 12 languages for global support.

TFT : Thin Film Transistor
LCD : Liquid Crystal Display
See page 9.

Large Comfortable Cab
- Low-noise cab, similar to passenger car
- Low vibration with cab damper mounting
- Highly pressurized cab with automatic air conditioner
- Operator seat and console with armrest that enables operations in the appropriate operational posture.

See page 6.

Easy Maintenance
- Long replacement interval of engine oil, engine oil filter, and hydraulic filter
- Remote mounted engine oil filter, engine main fuel filter and fuel drain valve for easy access
- Equipped with the fuel pre-filter as standard (with water separator)
- Side-by-side cooling concept enables individual cooling modules to be serviced.
- Equipped with the EMMS monitoring system

See pages 8 and 9.

Excellent Reliability and Durability
- High rigidity work equipment
- Sturdy frame structure
- Reliable Komatsu manufactured major components

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Komatsu Technology

Komatsu develops and produces all major components in house such as engines, electronics and hydraulic components. Combining "Komatsu Technology", and customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment-friendly excavators.

Low Emission Engine
Komatsu SAA4D95LE-5 is EPA Tier 3 and EU Stage 3A emissions certified.

Low Operation Noise
Enables low noise operation using the low-noise engine and methods to cut noise at source.
Electronically controlled common rail type engine
• Multi-staged injection
Low noise design
• Optimal arrangement of sound absorbing materials
• Partition between the cab and engine room

Larger Maximum Drawbar Pull
Larger maximum drawbar pull provides superb steering and slope climbing performance.
Maximum drawbar pull: 122.6 kN 12500 kgf 27,570 lb

Working Modes Selectable
The PC130-8 excavator is equipped with five working modes (P, E, L, B and ATT mode). Each mode is designed to match engine speed and pump speed with the current application. This provides the flexibility to match equipment performance to the job at hand.

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Eco-gauge that Assists Energy-saving Operations
The Eco-gauge on the right side of the multi-function color monitor provides environment-friendly energy-saving operation. Allows focus on operation in the green range with reduced CO₂ emissions and efficient fuel consumption.

Idling Caution
To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.
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Low Cab Noise
The newly-designed cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows this machine to generate a low level of noise similar to that of a passenger car.

Low Vibration with Cab Damper Mounting
PC130-8 uses viscous damper mounting for cab that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with high rigidity deck aids vibration reduction at operator seat.

Wide Newly-designed Cab
Newly-designed 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.

Automatic Air Conditioner
Enables you to easily and precisely set cab atmosphere with the instruments on the large LCD. The bi-level control function keeps the operator’s head and feet cool and warm respectively. This improved airflow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps front glass clear.

Pressurized Cab
Air conditioner, air filter and a higher internal air pressure (+6.0 mm Aq +0.2”Aq) prevent external dust from entering the cab.

Safety Features

ROPS Cab
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, The ROPS cab protects the operator in case of tipping over and against falling objects.

Lock Lever
Locks the hydraulic pressure to prevent unintentional movement. Neutral start function allows machine to be started only in lock position.

Large Side-view, Sidewise, Rear and Front Under-view Mirrors
Enlarged side mirrors and addition of front under mirror allow the PC130-8 to meet the new ISO visibility requirements.

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

Slip-resistant Plates
Highly durable slip-resistant plates maintain superior traction performance for the long term.

Thermal and Fan Guards
Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

Pump/engine Room Partition
Pump/engine room partition prevents oil from spraying onto the engine if a hydraulic hose should burst.
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Side-by-side Cooling
Since radiator, aftercooler and oil cooler are arranged in parallel, 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.

Easy Access to Engine Oil Filter, Engine Main Fuel Filter and Fuel Drain Valve
Engine oil filter, engine main fuel filter and fuel drain valve are remote mounted to improve accessibility.

Large-capacity Fuel Tank and Rustproof Treatment

Sloping Track Frame
Prevents dirt and sand from accumulating and allows easy mud removal.

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

Equipped with the Eco-drain Valve as Standard.
Prevents clothes and the ground from becoming contaminated due to oil leakage when replacing the engine oil.

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Air Conditioner Filter
The air conditioner filter is removed and installed without the use of tools facilitating filter maintenance.

Washable Cab Floormat
The PC130-8’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

Large TFT LCD Monitor
Large Multi-lingual LCD Monitor
A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be 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 to globally support operators around the world.

Excellent Reliability and Durability
High Rigidity Work Equipment
Boom and arms are constructed of thick plates of high tensile strength steel. In addition, these structures are designed with large cross-sectional areas and generous use of castings. The result is working attachments that exhibit long term durability and high resistance to bending and torsional stress.

Reliable Components
All of the major machine components, such as engine, hydraulic pump, hydraulic motors and control valves are exclusively designed and manufactured by Komatsu.

Metal Guard Rings Protect all the Hydraulic Cylinders and Improve Reliability.

EMMS (Equipment Management Monitoring System)
Monitor function
Controller monitors engine oil level, coolant temperature, battery charge and air clogging, etc. If controller finds any abnormality, it is displayed on the LCD.

Maintenance function
Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

Trouble data memory function
Monitor stores abnormalities for effective troubleshooting.

DT-type Connectors
DT-type connectors seal tight and have higher reliability.

O-ring Face Seal
The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance.
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**Long Greasing Interval (optional)**
High quality bushings are optionally available for work equipment pins except arm top pin. All bushing lubrication intervals of work equipment except arm top bushings are 500 hours, reducing maintenance cost.

**DT-type Connectors**
DT-type connectors seal tight and have higher reliability.

**O-ring Face Seal**
The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance.
**SPECIFICATIONS**

**ENGINE**
- Model: Komatsu SAA4D95LE-5
- Drive method: Hydrostatic
- Swing reduction: Mechanical disc brake
- Swing speed: 11.0 rpm
- Engine: Komatsu SAA4D95LE-5
- Maximum drawbar pull: 122.6 kN
- Gradiability: 70%, 35%
- Maximum travel speed: High 2.9 km/h, 1.8 mph
- Service brake: Hydraulic
- Parking brake: Mechanical disc brake

**HYDRAULICS**
- Type: HyraulMind (Hydraulic Mechanical Intelligence New Design)
- Variable displacement piston type pumps for Boom, arm, bucket, swing, and travel circuits
- Maximum flow: 241.5 l/min 63.8 U.S. gal/min
- Self-reducing valve
- Travel: 2 x axial piston motor with parking brake
- Swing: 1 x axial piston motor with swing holding brake
- Relief valve setting: 3.7" x 34.8" x 2.6"
- Bucket digging force: 8250 kgf/18,190 lb
- Arm crowd force: 6580 kgf/14,510 lb
- ISO rating: 24.7 MPa 355 kgf/cm² 5,050 psi
- SAE rating: 3.74" x 34.8" x 2.6"
- Bucket digging force: 8250 kgf/18,190 lb
- Arm crowd force: 5800 kgf/12,790 lb
- ISO rating: 3.74" x 34.8" x 2.6"
- SAE rating: 24.7 MPa 355 kgf/cm² 5,050 psi

**COOLANT AND LUBRICANT**
- Fuel tank: 247 ltr 65.3 U.S. gal
- Cooldown: 13.9 ltr 63.8 U.S. gal/min
- Engine: 500 mm 12380 kg 38.6 kPa
- Hydraulic tank: 23.8 U.S. gal
- Final drive, each side: 0.6 U.S. gal
- Travel: 2 x axial piston motor with parking brake
- Swing: 1 x axial piston motor with swing holding brake

**OPERATING WEIGHT (APPROXIMATE)**
- Operating weight including 4600 mm 15'1" one-piece boom:
  - Bucket: 0.18 m³ 0.16 m³ 450 mm 570 mm 256 kg
  - Arm: 0.24 m³ 0.21 m³ 17.7" 22.4" 565 lb
  - Boom: 0.30 m³ 0.26 m³ 23.6" 28.3" 670 lb
  - Max. drawing depth: 5520 mm 18'1"
  - Max. digging depth: 8290 mm 27'2"
- Fuel tank: 1925 mm 6'4" 50.5 kPa
- Coolant: 1925 mm 6'4" 50.5 kPa
- Engine: 1925 mm 6'4" 50.5 kPa
- Swing circuit: 1925 mm 6'4" 50.5 kPa
- Backhoe bucket, arm, and boom combination:
  - Arm: 1925 mm 6'4" 50.5 kPa
  - Bucket: 1925 mm 6'4" 50.5 kPa
  - Arm: 1925 mm 6'4" 50.5 kPa

**SWING SYSTEM**
- Drive method: Hydrostatic
- Swing reduction: Planetary gear
- Swing circle lubrication: Grease-lubricated
- Service brake: Hydraulic lock
- Holding brake/Swing lock: Mechanical disc brake
- Swing speed: 11.0 rpm

**UNDERCARRIAGE**
- Center frame: X-frame
- Track frame: Box-section
- Seal of track: Sealed track
- Track adjuster: Hydraulic
- Number of shoes (each side): 43
- Number of carrier rollers (each side): 1
- Number of track rollers (each side): 7
- Machine cab height: 1925 mm 6'4" 50.5 kPa
- Machine cab width: 1925 mm 6'4" 50.5 kPa
- Distance, swing center to rear end: 8290 mm 27'2" 50.5 kPa

**DRIVES AND BRAKES**
- Steering control: Two rows with pedals
- Drive method: Hydrostatic
- Maximum drawbar pull: 122.6 kN
- Gradiability: 70%, 35%
- Maximum travel speed: High 2.9 km/h, 1.8 mph
- Service brake: Hydraulic
- Parking brake: Mechanical disc brake

**BACKHOE BUCKET, ARM, AND BOOM COMBINATION**
- Bucket Capacity (heaped):
  - Width: 0.18 m³ 0.16 m³ 450 mm 570 mm 250 kg
  - Weight: 0.24 m³ 0.21 m³ 525 kg 640 lb
  - Number of teeth: 3
  - Arm Length: 2500 mm 8'2" 2000 mm 6'6"

**WORKING RANGE**
- Arm Length: 2500 mm 8'2" 2000 mm 6'6"
- Max. digging depth: 8290 mm 27'2" 2000 mm 6'6"
- Max. digging depth: 8000 mm 26'2" 1970 mm 6'1"
- Max. digging depth: 8000 mm 26'2" 1470 mm 4'9"
- Max. digging depth: 8000 mm 26'2" 8720 mm 28'7"
**SPECIFICATIONS**

### ENGINE
- **Model:** Komatsu SAA4D95LE-5
- **Type:** Turbocharged, aftercooled, 4-cylinder, direct injection
- **Aspiration:** Water-cooled
- **Number of cylinders:** 4
- **Bore:** 95 mm (3.74")
- **Stroke:** 115 mm (4.53")
- **Piston displacement:** 3.26 liters (199 in³)
- **Horsepower:**
  - SAE J1995: 361.0 SAE HP (269 kW)
  - EPA Tier 3: 355.7 HP (266 kW)
  - EU Stage 3A: 357.9 HP (268 kW)
  - SAE J1995: 295.4 SAE HP (220 kW)
  - EPA Tier 3: 291.5 HP (219 kW)
  - EU Stage 3A: 292.8 HP (217 kW)

### HYDRAULICS
- **Type:** HydraulMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves
- **Swing system:**
  - **Center frame:** X-frame
  - **Track frame:** Box-section
  - **Swing drive:** 2-speed
  - **Swing system:** 1 x axial piston motor with swing holding brake
  - **Hydraulic system:**
    - **Travel:** 2 x axial piston motor with parking brake
    - **Swing:** 1 x axial piston motor with swing holding brake
    - **Relief valve setting:** 28.4 MPa (4,140 psi)
- **Type of variable displacement piston type Pumps for:** Boom, arm, bucket, swing, and travel circuits

### SWING SYSTEM
- **Max. digging depth:** 8.2 m (26.9 ft)
- **Min. swing radius:** 3.0 m (9.8 ft)
- **Swing system:**
  - **Swing rate:** 2.9 km/h (1.8 mph)
  - **Swing speed:** 11.0 rpm

### UNDERCARRIAGE
- **Track gauge:** 2855 mm (9' 4")
- **Width of crawler:** 2490 mm (8' 2")
- **Swept area:**
  - **Swing area:** 2240 m² (23,924 ft²)
  - **Travel area:** 2400 m² (25,827 ft²)

### COOLANT AND LUBRICANT CAPACITY (REFILLING)
- **Coolant:** 3.7 U.S. gal (14.0 L)
- **Pilot circuit:** 3.2 MPa (46.5 psi)
- **Hydraulic tank:**
  - **Max. digging depth:** 8.2 m (26.9 ft)
  - **Min. swing radius:** 3.0 m (9.8 ft)

### WORKING RANGE
- **Backhoe bucket, arm, and boom combination**
  - **General digging:** 3.2 m³ (4.3 yd³)
  - **Light-duty operation:** 2.8 m³ (3.7 yd³)
  - **Not available:**

### OPERATING WEIGHT (APPROXIMATE)
- **Operating weight including:**
  - Rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.
- **Rated rpm:** 2200 rpm
- **Displacement of:**
  - **Engine:** 3.19 m³ (120.7 ft³)
  - **Swing system:** 4.8 m³ (171.6 ft³)
  - **Undercarriage:** 3.7 m³ (131.0 ft³)

### DRIVES AND BRAKES
- **Steering control:** Two levers with pedals
- **Service brake:** Hydraulic lock
- **Parking brake:** Mechanical disc brake
- **Drawbar pull:** 88.5 kN (20,000 lb)
- **Drawbar pull at power max.:** 82.9 kN (18,500 lb)
- **Arm crossed force at power max.:** 68.6 kN (15,200 lb)

### BACKHOE BUCKET, ARM, AND BOOM COMBINATION
- **Bucket capacity (heaped):**
  - **Type:** SAE
  - **Bucket size:** 5.0 m³ (6.6 yd³)
  - **ECC:** 1.5 m³ (2.0 yd³)
  - **With side cutters:** 1.0 m³ (1.3 yd³)
- **Operating weight:**
  - **Rated capacity:** 1.0 m³ (1.3 yd³)
  - **Emergency:** 1.5 m³ (2.0 yd³)

### OPERATING MACHINES
- **Rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.**
- **Working range:**
  - **Rated capacity:** 1.0 m³ (1.3 yd³)
  - **Emergency:** 1.5 m³ (2.0 yd³)
- **Hydraulic system:**
  - **Travel:** 2 x axial piston motor with parking brake
  - **Swing:** 1 x axial piston motor with swing holding brake
- **Relief valve setting:** 28.4 MPa (4,140 psi)
- **Swing rate:** 2.9 km/h (1.8 mph)
- **Swing speed:** 11.0 rpm
### 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  
**Ci**: Rating at maximum reach

#### Conditions:
- 4600 mm 15’1” one-piece boom
- 0.5 m³/0.65 yd³ SAE heaped bucket
- 500 mm 20” triple-grouser shoe

#### Table

<table>
<thead>
<tr>
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<th>7.6 m</th>
<th>6.1 m</th>
<th>4.6 m T</th>
<th>3.0 m T</th>
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<th>−0.5 m</th>
<th>−1.0 m</th>
<th>−1.5 m</th>
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<tr>
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</table>

* 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 lift capacity or 70% of tipping load.
### STANDARD EQUIPMENT
- Air conditioner with defroster
- Alternator, 35 Ampere, 24 V
- Auto-decel
- Automatic engine warm-up system
- Batteries, 64 Ah/2 x 12 V
- Boom holding valve
- ROPS cab (ISO 12117-2)
- Counterweight
- Dry type air cleaner, double element
- Electric horn
- EMMIS monitoring system
- Engine, Komatsu SAA4D95LE-5
- Engine overheat prevention system
- Fan guard structure
- Front underview mirror
- Hydraulic track adjusters (each side)
- Multi-function color monitor
- Power maximizing system
- PPC hydraulic control system
- Radiator and oil cooler dust proof net
- Rear reflector
- Rearview mirrors (RH, LH, rear, sidewise)
- Seat belt, retractable
- Slip-resistant plates
- Starting motor, 4.5 kW/24 V x 1
- Suction fan
- Track roller: 7" each side
- Track shoe: 500 mm 20" triple grouser
- Travel alarm
- Working light, 2 (boom and RH)
- Working mode selection system

### OPTIONAL EQUIPMENT
- Additional filter system for poor-quality fuel
- Alternator, 60 Ampere, 24 V
- Arms
  - 2500 mm 8'2" arm assembly
  - 3000 mm 9'10" arm assembly
- Batteries, large capacity
- Bolt-on top guard, [Operator Protective Guard level 2]
- Boom, 4600 mm 15'1"
- Cab accessories
  - Rain visor
- Cab front guard
  - Full height guard
  - Half height guard
- Long lubricating intervals for work equipment bushing (500 hours)
- Rear view monitoring system
- Seat, suspension
- Service valve
- Shoes, triple grouser
  - 600 mm 24"
  - 700 mm 28"
- Track frame undercover
- Track roller guards (center section)
- Working light, 2 (boom and RH)
- Working lights
  - 2 on cab
  - 1 on counterweight
PC130-8

HORSEPOWER
Gross: 72.1 kW (96.6 HP) @ 2200 rpm
Net: 68.4 kW (91.7 HP) @ 2200 rpm

OPERATING WEIGHT
12380–12740 kg (27,300–28,100 lb)

BUCKET CAPACITY
0.18–0.6 m³ (0.24–0.78 yd³)

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