HB205-1MO
HB215LC-1MO

FLYWHEEL HORSEPOWER
Gross: 110 kW 148 HP / 2000 min⁻¹
Net: 104 kW 139 HP / 2000 min⁻¹

OPERATING WEIGHT
HB205-1MO: 20200 - 20830 kg
HB215LC-1MO: 21220 - 21850 kg

KOMATSU®

HYDRAULIC EXCAVATOR
**HYBRID SYSTEM**

The Leading-edge Machine of the New Generation of Hydraulic Excavators, Focus both on Environmental Concerns and Practical Performance

Most components including those of the hybrid system are developed and manufactured by Komatsu. They are compact in design and feature excellent reliability and durability.

---

**Reliable and Durable Hybrid Components Developed and Manufactured by Komatsu**

**Generator/motor**

The generator/motor is positioned between the engine and hydraulic pump for effective power transmission to the hydraulic pump. The generator/motor sometimes produces electric power and charges the capacitor during the period when the engine is idling.

**Electric Swing Motor/generator**

The electric swing motor/generator is installed. This recovers the energy during swing braking. The motor/generator accelerates the swing of the upper structure more efficiently than the conventional hydraulic motor and provides excellent swing performance. The dedicated lubrication and cooling systems are employed for reliability and durability.

**Inverter and Capacitor**

The inverter and the capacitor have high reliability with the dedicated cooling system. The capacitor can charge or discharge more quickly than the battery hybrid system, because it doesn’t require any chemical reactions that take some lag generating the electric current, while the battery requires. The quickness is the advantage for matching the frequent change of the engine speed of construction equipment. The inverter and the capacitor also have the advantage of long life, which require no maintenance because of its little degradation.

---

**Easy-to-understand Hybrid Operation Monitor Screen**

**Energy Management Screen**

The operation status of the hybrid system is displayed on the screen as energy flows, which include capacitor charging/discharging and engine assist by the generator/motor.

**Hybrid System Temperature Gauge**

The hybrid system temperature gauge is displayed on the screen. This allows the operator to understand the severity of the load on the hybrid system at a glance.

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**KOMATSU HYBRID SYSTEM**

**Strengthened Revolving Frame**

The revolving frame is reinforced to protect the hybrid components from impact.

**Inverter and Capacitor**

Driven by electricity, efficiently and instantaneously stores and discharges electric energy.

**Capacitor Characteristics**

The capacitor is charged and discharged by the migration of electrons and ions. A large amount of energy can be recovered efficiently.

In Komatsu’s unique hybrid system, the electric swing motor/generator captures and regenerates energy as the upper structure slows down and converts it into electric energy. The regenerated energy is stored in the capacitor and used by the generator/motor to assist the engine when it needs to accelerate. Thus, the hybrid system reduces fuel consumption significantly. Most components of the system are developed and manufactured by Komatsu.
**WORKABILITY & ECOLOGY**

**Komatsu’s Next Generation Technologies that Enabled the Hydraulic Excavator to Satisfy both Environment-friendliness and High Working Performance.**

**HB205/215LC-1M0 realizes 22%* reduction in fuel consumption while keeping a high level of performance and consumes less fuel even than HB205/215LC-1**

- **Low Emission Engine**
  - Komatsu SAA4D107E-1-A engine is EPA Tier 3 and EU Stage 3A emissions equivalent, without sacrificing power or machine productivity.

- **Low Operation Noise**
  - Enables low noise operation using the low-noise engine and methods to cut noise at source.

- **Fuel-saving Technology**
  - The technology of Engine and Pump control
  - HB205/215LC-1M0 introduces the technology of Engine and Hydraulic Pump control, providing further fuel savings with sufficient oil flow at lower Engine speed.

**TOTAL VEHICLE CONTROL & HYBRID SYSTEM**

In addition to the engine, hydraulic components, main valve and electronic components that control them, the hybrid system components such as the generator/motor, swing electric motor/generator, Inverter and capacitor are also developed and manufactured by Komatsu. They are neatly arranged on the machine. Controlling the Inverter enables the optimum operation of the generator/motor, electric swing motor/generator and engine according to the work at hand, allowing the machine to demonstrate its potential fully while reducing fuel consumption significantly. The machine monitor displays the bar chart that indicates the average fuel consumption in the previous 5 minutes. The ECO-gauge shows the work load to assist the operator to perform energy-saving operations. Hybrid HB205/215LC-1M0 reduces CO₂ emissions making them environmentally-friendly machines.

**Fuel Consumption**

<table>
<thead>
<tr>
<th>HB205/215LC-1</th>
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<tr>
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</table>

*Compared with PC200-8M0 at P mode and 100% working efficiency. Fuel consumption varies depending on job conditions.

**Assistance for Energy-saving Operation for Reduced CO₂ Emissions**

- **Work Mode Selectable**
  - Selectable two work modes - P mode for large production and E mode for fuel-saving, it depends on your priority.
  - P mode - Power or production priority mode has improved fuel consumption, while maintaining maximum production.
  - E mode - Economy or fuel priority mode reduces fuel consumption, but maintains the P mode-like work equipment speed for light duty work.
  - You can select Power or Economy modes using a one-touch operation on the monitor panel depending on work loads.

- **KOMTRAX Report for Supporting Energy-saving Operation**
  - The report includes actual operating hours, hydraulic stall hours, etc of the machine, which are extracted from the KOMTRAX information. Customers can get the report and use it for energy-saving operation.

- **Idling Caution**
  - To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.

- **Fuel Consumption Monitor and ECO-gauge**
  - The bar chart displayed at the center of the screen shows the average fuel consumption in previous 5 minutes to promote energy-saving operation. The screen can be switched to past average fuel consumption log screens for 12 hours and one week.
  - The ECO-gauge appears on the right of the screen. Operating the machine by keeping the gauge in the green zone reduces CO₂ emissions and fuel consumption as well.

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*Compared with PC200-8M0 at P mode and 100% working efficiency. Fuel consumption varies depending on job conditions.
SAFETY & COMFORT

**Comfortable and Relaxing Operating Environment for the Operator**

The silent and spacious ROPS cab and various safety features allow the operator to operate the machine comfortably and efficiently.

**Safety Design**

**Lock Lever**
The lever makes all hydraulic controls in the cab inoperable. The neutral start function allows the engine to start with this lever only in LOCK position.

**Retractable Seat Belt**
Emergency Escape Hammer

Reinforced and Tinted Window Glass

Large Side-view, Rear, and Sidewise Mirrors
Enlarged left-side mirror and addition of rear and side mirror allow the HB205/215LC-1M0 to meet the new ISO visibility requirements.

**Side View Mirror**
Rear View Monitoring System (optional)

Slip-resistant Plates
Thermal and Fan Guards
Pump/engine Room Partition
Large Handrail
Large Step
Travel Alarm

**Comfortable Cab for Reduced Operator Fatigue**

Low Noise Level similar to that of a modern automobile

Cab Damper Mounts
Significantly reduces vibration at operator seat.

Pressurized Cab
Auto air conditioner, air filter and a higher internal air pressure prevent external dust from entering the cab.

Wide Cab
Wide and spacious cab provides ample leg room, allowing an operator with a large body frame to take the appropriate operational posture. Reclining it further allows it to be placed into fully flat state with the headrest attached. The operator seat can be reclined, and the adjustment is up to fully flat position with the headrest attached.

Full-automatic Air Conditioner, with fresh air in take
ICT & KOMTRAX

The up-to-date ICT Makes the KOMTRAX System Easy-to-use, Convenient, and Worthy of Your Confidence

KOMTRAX with advanced ICT assists the operator in operating the machine and the administrator in managing their machines and reducing fuel cost.

Large Multi-lingual High Resolutional LCD Monitor
A large user-friendly high resolution LCD color monitor enables safe, accurate and smooth work. Visibility and resolution are further improved compared with current 7-inch large TFT LCD. Simple and easy to operate switches. Function keys facilitate multi-function operations. Displays data in 13 languages to globally support operators around the world.

Operator Assistance Function for Effective and Efficient Operation
Fuel Consumption and Energy Flow Screens
The operator can check information of recent fuel consumption rates and the energy flow among engine and hybrid components on the machine monitor at any time.

Rear View Monitoring System that Conforms to ISO Standard (optional)
The machine is equipped with a rear view camera, allowing the operator to see the blind spot behind the machine on the large LCD monitor screen.

Password Protection for Engine Start (Immobilizer)
The engine cannot be started unless the registered password is entered correctly.

KOMTRAX Message
KOMTRAX communication function allows you to get and read messages from your Komatsu dealer on the machine monitor.

Equipment Management Support
KOMTRAX terminal installed on your machine collects and sends information such as machine location, working record, machine conditions, etc. using wireless communication. You can review the KOMTRAX data remotely via the online application. KOMTRAX not only gives you the informations on your machine, but also the convenience of managing your fleet on the Web.

Energy-saving Operation Support Report
KOMTRAX can provide various useful information which includes the energy-saving operation support report created based on the operating information of your machine such as fuel consumption and idle time.
Excellent Maintainability for Reduced Check and Maintenance Time

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

Toolbox
The toolbox is installed currently with the step.

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

Gas Assisted Engine Hood Damper Cylinders

Equipped with the Engine Eco-drain Valve as Standard.

Large Capacity Fuel Tank of 400 Liters with Rustproof Treatment
Sloping Track Frame for Reduced Accumulation of Dirt and Sand and Easy Removal
Washable Cab Floor Mat

Accurate and Prompt Diagnosis Thanks to EMMS

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.

Equipped with the Fuel Pre-filter (with Water Separator)
Removes water and contaminants in the fuel to prevent fuel problems. (with built-in priming pump)

High Efficiency Fuel Filter
Fuel system reliability is even better with high efficiency fuel filter.

Easy Access to Engine Oil Filter and Fuel Drain Valve

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

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Replacement 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>

Work Equipment Greasing Interval: Every 500 Hours
**SPECIFICATIONS**

**ENGINE**

- **Model**: Komatsu SAA4D107E-1-A
- **Type**: Water-cooled, 4-cycle, direct injection
- **Number of cylinders**: 4
- **Bore**: 107 mm
- **Stroke**: 124 mm
- **Arm Length**: 2925 mm
- **Type**: Water-cooled, 4-cycle, direct injection
- **Aspiration**: Mechanical
- **Horsepower**: Overall length 9425 mm
- **SAE J1995**: Gross 110 kW (148 HP) / 2000 min⁻¹
- **ISO 9249 / SAE J1349**: Net 104 kW (139 HP) / 2000 min⁻¹

**SWING SYSTEM**

- **Drive method**: Electric drive
- **Swing reduction**: Planetary gear
- **Swing circle lubrication**: Grease-lubricated
- **Service brake**: Electric brake
- **Holding brake/Swing lock**: Mechanical disc brake
- **Swing speed**: 12.4 min⁻¹

**UNDERCARRIAGE**

- **Fan drive method for radiator cooling**: Mechanical
- **Ground clearance, counterweight**: 1085 mm
- **Ground clearance (minimum)**: 440 mm
- **Track length on ground**: 3275 mm
- **Track length**: 4070 mm
- **Track gauge**: 2200 mm
- **Width of crawler**: 2800 mm
- **Shoe width**: 600 mm
- **Grouser height**: 26 mm
- **Maximum digging reach at ground level**: 9700 mm
- **Max. digging height**: 10000 mm
- **Max. digging depth**: 6620 mm
- **Max. vertical wall digging depth**: 5980 mm
- **Arm crowd force at power max.**: 108 kN
- **Bucket capacity (heaped)**: 0.80 m³ backhoe bucket

**HYDRAULICS**

- **Type**: HydrauMind (Hydraulic Mechanical Intelligence New Design)
- **Number of selectable working modes**: 5
- **Main pump**: Variable displacement piston type
- **Number of selectable working modes**: 5
- **Pumps for**: Boom, arm, bucket and travel circuits
- **Maximum flow**: 430 L / min
- **Supply for control circuit**: Self-reducing valve
- **Hydraulic motors**: Travel pump: 2 x axial piston motors with parking brake
- **Relief valve setting**: Implement circuits 37.3 MPa
- **Final drive, each side**: 3.3 L
- **Swing drive**: 6.0 L
- **Hydraulic tank**: 135 L
- **Fuel tank**: 400 L
- **Coolant (Engine)**: 17.3 L
- **Hydraulic oil**: 5.5 L
- **Boom**: 2–135 mm x 1490 mm x 95 mm
- **Arm**: 1–135 mm x 1490 mm x 95 mm
- **Bucket**: 2.41 m³ x 1120 mm x 80 mm

**COOLANT AND LUBRICANT CAPACITY**

- **Fuel tank**: 400 L
- **Coolant (Engine)**: 17.3 L
- **Hydraulic oil**: 5.5 L
- **Boom**: 2–135 mm x 1490 mm x 95 mm
- **Arm**: 1–135 mm x 1490 mm x 95 mm
- **Bucket capacity (heaped)**: 0.80 m³ backhoe bucket
- **Rated capacity of lubricants, coolant, full fuel tank and standard equipment.**

**OPERATING WEIGHT (APPROXIMATE)**

- **Operating weight including 5700 mm one-piece boom, 2925 mm arm, SAE heaped 0.80 m³ backhoe bucket, rated capacity of lubricants, coolant, full fuel tank and standard equipment.**

**BACKHOE BUCKET, ARM, AND BOOM COMBINATION**

- **Bucket capacity (heaped)**: 0.80 m³ backhoe bucket
- **Width**: 1300 mm
- **Weight**: 635 kg
- **Number of teeth**: 5
- **Arm length**: 2925 mm

**DIMENSIONS**

- **Overall length**: 9425 mm
- **Overall width**: 2800 mm
- **Overall height (to top of cab)**: 3040 mm
- **Ground clearance**: 440 mm
- **Track length on ground**: 3275 mm
- **Track length**: 4070 mm
- **Track gauge**: 2200 mm
- **Track width**: 2800 mm

**DRIVES AND BRAKES**

- **Steering control**: Two levers with peddals
- **Drive method**: Hydrostatic
- **Maximum drawbar pull**: 178 kN (1820 kq)
- **Grades**: 75º, 35º
- **Maximum travel speed**: 5.5 km/h
- **Service brake**: Hydraulic lock
- **Parking brake**: Mechanical disc brake

**WORKING RANGE**

- **Arm Length**: 2925 mm
- **Max. digging height**: 10000 mm
- **Max. digging depth**: 6620 mm
- **Max. vertical wall digging depth**: 5980 mm
- **Bucket digging force at power max.**: 1320 kg
- **Arm crowd force at power max.**: 1320 kg
### HB205/HB215LC-1M0

#### LIFTING CAPACITY WITH LIFTING MODE

<table>
<thead>
<tr>
<th></th>
<th>A: Reach from swing center</th>
<th>B: Bucket hook height</th>
<th>C: Lifting capacity</th>
<th>Cf: Rating over front</th>
<th>Cs: Rating over side</th>
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</tr>
</thead>
<tbody>
<tr>
<td>7.5 m</td>
<td>2800 kg</td>
<td>2000 kg</td>
<td>2000 kg</td>
<td>5700 kg</td>
<td>4050 kg</td>
<td>600 kg</td>
</tr>
<tr>
<td>6.0 m</td>
<td>2700 kg</td>
<td>2100 kg</td>
<td>3000 kg</td>
<td>5000 kg</td>
<td>4200 kg</td>
<td>4100 kg</td>
</tr>
<tr>
<td>4.5 m</td>
<td>2750 kg</td>
<td>2500 kg</td>
<td>3800 kg</td>
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<td>5000 kg</td>
<td>7500 kg</td>
</tr>
<tr>
<td>0 m</td>
<td>3000 kg</td>
<td>2100 kg</td>
<td>3200 kg</td>
<td>2000 kg</td>
<td>5000 kg</td>
<td>7500 kg</td>
</tr>
</tbody>
</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 75% of tipping load.

#### ENGINE
- Automatic engine warm-up system
- Dry type air cleaner, double element
- Engine, Komatsu SAA4D107E-1-A
- Engine overheat prevention system
- Radiator and oil cooler dust proof net
- Suction fan

#### ELECTRICAL SYSTEM
- Auto-decel
- Alternator, 24 V/80 A
- Batteries, 2 × 12 V/110 Ah
- Starting motor, 24 V/4.5 kW
- Working light, 2 (boom and RH)

#### HYDRAULIC SYSTEM
- Boom holding valve
- PPC hydraulic control system
- Power maximizing system
- Working mode selection system

#### GUARDS AND COVERS
- Fan guard structure
- Track guiding guard, center section

#### OPERATOR ENVIRONMENT
- Air conditioner defroster
- Multi-function color monitor
- Rear view mirrors (RH,LH,sidewise)
- ROPS cab (ISO 12117-2)

#### OTHER EQUIPMENT
- Countertopweight
- Electric horn
- EMMS monitoring system
- KOMTRAX
- Rear reflector
- Slip-resistant plates
- Travel alarm

#### UNDERCARRIAGE
- Hydraulic track adjusters (each side)
- Track roller
  - HB205-1M0 7 each side
  - HB215LC-1M0 9 each side
- Track shoe
  - HB205-1M0 600 mm triple grouser
  - HB215LC-1M0 700 mm triple grouser

#### STANDARD EQUIPMENT

#### OPTIONAL EQUIPMENT

#### ENGINE
- Additional filter system for poor-quality fuel
- Large capacity fuel pre-filter

#### ELECTRICAL SYSTEM
- Auto-decel
- Alternator, 24 V/35 A
- Batteries, large capacity
- Convator, 12 V
- Starting motor 24 V/5.5 kW
- Working lights —2 on cab —1 on counterweight

#### HYDRAULIC SYSTEM
- Long lubricating intervals for work equipment bushing (500 h)
- Service valve

#### UNDERCARRIAGE
- Shoes, triple grouser
  - HB205-1M0 700 mm, 800 mm
  - HB215LC-1M0 600 mm, 800 mm

#### OPERATOR ENVIRONMENT
- Bolt-on top guard (Operator Protective Guards level 2 (OPG))
- Cab accessories
  - Rain visor
  - Sun visor
- Cab front guard
  - Full height guard
  - Half height guard
- Rear view monitoring system
- Seat, suspension
- Seat belt, retractable

#### WORK EQUIPMENT
- Arms
  - 2925 mm arm assembly

---

### HB215LC-1M0

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#### OPERATOR ENVIRONMENT
- Air conditioner defroster
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- ROPS cab (ISO 12117-2)

#### OTHER EQUIPMENT
- Countertopweight
- Electric horn
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- KOMTRAX
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**HB215LC-1M0**

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