Advanced Hybrid Hydraulic Excavator **HB205 /215LC-1** Making Full Debut on the Market

**What Komatsu Can Do**  
and **What It Must Do for the Global Environment**

Komatsu, as a global corporation, established the Komatsu Earth Environment Charter, which delineated its basic principles as contribution to realization of a sustainable society:
- simultaneous realization of environmental and economic performances
- observance of corporate social responsibility.

Komatsu is promoting various activities that will reduce environmental impact.

Under these principles, Komatsu has collected its total technologies to realize the ideal construction equipment of the next generation.

In 2008, Komatsu succeeded in introducing the world’s first hydraulic excavator equipped with a hybrid system to the market.*

Now, the next generation machine with upgraded specifications and sophisticated styling, Hybrid hydraulic excavators **HB205/215LC-1** mark their full debut on the market.

The machines achieve 25% reduction in fuel consumption** and reduced NOx and CO2 emissions, which are the same as the previous model.

Hybrid hydraulic excavators HB205/215LC-1 establish their position as the next generation of construction equipment.

*: Among marketed hydraulic excavators  
**: Compared with PC200-8 according to our test standard.  
The value can change depending on the work.
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 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 newly developed. 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 newly developed 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.

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.

* Except capacitor cells

Photo may include optional equipment.
**LOW EMISSION ENGINE**

Komatsu SAA4D107E-1-A engine is EPA Tier 3 and EU Stage 3A emissions certified, 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**

New technology of Engine and Pump control HB205/215LC-1 introduces new 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-1 reduces CO₂ emissions making them environmentally friendly machines.

**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 last one hour, 12 hours, one week and one month. 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.
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.

Low Noise Level similar to that of a modern automobile

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.

Cab Damper Mounts
Significantly reduces vibration at operator seat.

Full-automatic Air Conditioner, with fresh air in take

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

Standard Equipment

- Sliding window glass (left side)
- Cigar lighter
- Magazine Rack and cup holder
- Plastic bottle storage
- One-touch storable front window lower glass
- Rubber Silcon Oil Spring

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.

Safety Design to Conform to Safety Standards in Japan, USA and Europe

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-1 to meet the new ISO visibility requirements.

Side View Mirror

Rear View Monitoring System (optional)

Anti-slip 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

Wide Cab

Reinforced and Tinted Window Glass

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Full-automatic Air Conditioner, with fresh air in take

Pressurized Cab
Auto air conditioner, air filter and a higher internal air pressure prevent external dust from entering the cab.
Komatsu hybrid hydraulic excavators working around the world demonstrate excellent fuel consumption and high reliability.
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 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. The switches are simple and easy to operate. Industry first function keys facilitate multi-function operations. Displays data in 12 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 monitor at any time.

Rear View Monitoring system that Conforms to New 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.

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

Gas Assisted Engine Hood Damper Cylinders

EMMS

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

Toolbox

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.

Equipment Greasing Interval; Every 500 Hours

Engine oil & Engine oil filter every 500 hours

Hydraulic oil every 5000 hours

Hydraulic oil filter every 1000 hours
**SPECIFICATIONS**

### ENGINE

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<thead>
<tr>
<th>Model</th>
<th>Komatsu SA4D107E-1-A</th>
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<tbody>
<tr>
<td>Type</td>
<td>Water-cooled, 4-cyl, direct injection, Turbocharged, air-cooled</td>
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<tr>
<td>Number of cylinders</td>
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<td>Stroke</td>
<td>124 mm 4.8&quot;</td>
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<td>Piston displacement</td>
<td>4.46 ltr 272 in²</td>
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<td>Horsepower:</td>
<td>310 kW 415 HP</td>
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<td>Rated rpm</td>
<td>2000 rpm</td>
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<td>Fan drive method</td>
<td>Radiator cooling, Mechanical Governor, All-speed control, electronic EPA Tier 3 and EU Stage 3A emission certified</td>
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</table>

### UNDERCARRIAGE

<table>
<thead>
<tr>
<th>Model</th>
<th>Komatsu SAA4D107E-1-A</th>
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<tbody>
<tr>
<td>Type</td>
<td>Water-cooled, 4-cycle, direct injection, Turbocharged, air-cooled, Sealed track</td>
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<tr>
<td>Track adjuster</td>
<td>Hydraulic</td>
</tr>
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<td>Number of shoes (each side)</td>
<td>HB205-1: 49, HB215LC-1: 49</td>
</tr>
<tr>
<td>Number of carrier rollers</td>
<td>HB205-1: 2, HB215LC-1: 2</td>
</tr>
<tr>
<td>Overall length</td>
<td>9425 mm</td>
</tr>
<tr>
<td>ISO 9249 / SAE J1349</td>
<td>Net 19425 mm 135 HP</td>
</tr>
<tr>
<td>Type</td>
<td>2 each side</td>
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</table>

### COOLANT AND LUBRICANT

- **Fuel tank:** 400 ltr 105.7 U.S. gal
- **Coolant (Engine):** 17.3 ltr 4.6 U.S. gal (Hybrid) 5.2 ltr 1.4 U.S. gal
- **Final drive:** 1.2 ltr 0.3 U.S. gal
- **Sway drive:** 1.5 ltr 0.4 U.S. gal
- **Generator motor:** 6.0 ltr 1.6 U.S. gal
- **Hydraulic tank:** 135 ltr 35.7 U.S. gal

### OPERATING WEIGHT (APPROXIMATE)

- **Operating Ground Weight:** HB205-1: 2200 kgf/4800 lb, HB215LC-1: 2380 kgf/5250 lb
- **Rated capacity:** 700 mm 20580 kgf 40.4 kPa, 800 mm 20830 kgf 35.8 kPa

### DRIVES AND BRAKES

- **Steering control:** Two levers with pedals
- **Drive method:** Hydrostatic
- **Maximum drawbar pull:** 176 kW 18200 kg 40.120 lb
- **Gradesability:** 70%, 35%
- **Maximum travel speed:** 5.5 km/h 3.4 mph (Auto-Shift) 3.3 km/h 2.8 mph (Auto-Shift)
- **Service brake:** Hydrostatic
- **Parking brake:** Mechanical disc brake

### SWING SYSTEM

- **Drive method:** Electric drive
- **Swing reduction:** Planetary gear
- **Swing circle lubrication:** Grease-packed
- **Service brake:** Electric brake
- **Holding brake/Swing lock:** Mechanical disc brake
- **Swing speed:** 12.4 rpm

### HYDRAULICS

- **Type:** HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure-compensated valves
- **Number of selectable working modes:** 5
- **Main pump:** Variable displacement piston type Pumps for Boom, arm, bucket and travel circuits
- **Maximum flow:** 439 l/min 116 U.S. gpm
- **Supply for control circuit:** Self-reducing valve
- **Hydraulic motors:**
  - Travel: 2 x axial piston motor with parking brake
- **Relief valve setting:** 5,400 psi 37.3 MPa
- **Hydraulic cylinders:**
  - (Number of cylinders - bore x stroke x rod diameter): Boom: 2-120 mm x 1334 mm x 85 mm 1.4" x 52.5" x 3.3" 1-115 mm x 1490 mm x 95 mm 1.1" x 58.7" x 3.7" Bucket: 2.1 for 7" 2.93 x 9" 7.5" Arm: 1-115 mm x 1120 mm x 80 mm 1.15" x 44.1" x 3.2"

### WORKING RANGE

- **Arm Length:** HB205-1: 2935 mm 9'7", HB215LC-1: 2985 mm 9'10"
- **Sway length:** HB205-1: 3085 mm 10'1", HB215LC-1: 3095 mm 10'1"
- **Arm crowning:** HB205-1: 1300 kgf/2880 lb, HB215LC-1: 1295 kgf/2860 lb
- **Max. vertical wall:** HB205-1: 32'10", HB215LC-1: 31'10"
- **Max. digging reach:** HB205-1: 9875 mm 32'10", HB215LC-1: 9825 mm 32'10"
- **Arm digging force:** HB205-1: 101 kN 22,710 lb, HB215LC-1: 103 kN 22,900 lb
- **Arm crowd force:** HB205-1: 5980 mm 37.3 MPa, HB215LC-1: 5980 mm 37.3 MPa
- **Arm dug:** HB205-1: 3040 mm 10'0", HB215LC-1: 3040 mm 10'0"
- **Min. swing radius:** HB205-1: 325 mm 1'1', HB215LC-1: 305 mm 1'1"
- **Max. dumping height:** HB205-1: 23'4", HB215LC-1: 23'4"
- **Max. digging height:** HB205-1: 32'10", HB215LC-1: 32'10"
- **Max. digging depth:** HB205-1: 5980 mm 19'10", HB215LC-1: 5980 mm 19'10"
- **Max. digging reach:** HB205-1: 9875 mm 32'10", HB215LC-1: 9825 mm 32'10"
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LIFTING CAPACITY WITH LIFTING MODE

**Conditions:**
- 5700 mm 18"/8 one-piece boom
- 0.6 m³ 1.05 yd³ SAE heaped bucket
- Shoe width:
  - HB205-1: 600 mm 24" triple grousers

**A:** Reach from swing center

**B:** Bucket hook height

**C:** Lifting capacity

**Cf:** Rating over front

**Cv:** Rating over side

**Rating at maximum reach**

<table>
<thead>
<tr>
<th>HB205-1</th>
<th>Arm: 2950 mm 9' 3&quot;</th>
<th>Bucket: 9.8 m³ 13.55 yd³ SAE heaped</th>
<th>Shoe: 600 mm 24&quot; triple grousers</th>
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<tbody>
<tr>
<td></td>
<td>MAX</td>
<td>7.6 m 25'</td>
<td>6.1 m 20'</td>
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**Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Plated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.**

**Optional Equipment**

**A:** Reach from swing center

**B:** Bucket hook height

**C:** Lifting capacity

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**Rating at maximum reach**

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