

KOMATSU

PC210/LC-11 PC210LCi-11

intelligent / 2.0
MACHINE CONTROL

EPA Tier 4 Final Engine
Australia & New Zealand Specifications



Photos may include overseas specification.

Hydraulic
excavator

Horsepower

Gross: 123 kW / 165 HP @ 2000 RPM
Net: 118 kW / 158 HP @ 2000 RPM

Operating weight range

PC210-11 22,410 - 23,180 kg
PC210LC-11 23,000 - 23,830 kg
PC210LCi-11 23,000 - 23,830 kg

Bucket capacity

0.50-1.20 m³

Walk-around

NET Horsepower

Gross: 123 kW / 165 HP @ 2000 RPM

Net: 118 kW / 158 HP @ 2000 RPM

Operating weight

PC210-11 22,410 – 23,180 kg

PC210LC-11 23,000 – 23,830 kg

PC210LCi-11 23,000 – 23,830 kg

Blade capacity

0.50–1.20 m³



iMC 2.0 picture shown. Standard machine may be different.



Photo may include overseas specification.

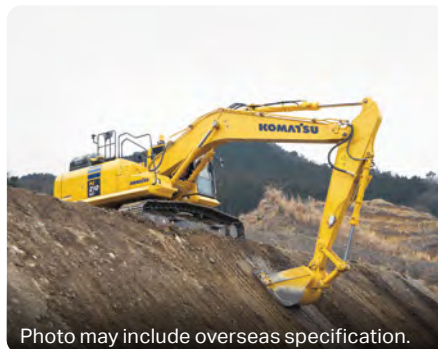


Photo may include overseas specification.

Performance & efficiency (all models)

New engine and hydraulic control technology improves operational efficiency and lowers fuel consumption by up to 7%.

Komatsu Harmony

All major components are designed and manufactured by Komatsu. A fully integrated design produces an efficient, reliable system.

A powerful Komatsu SAA6D107E-3 engine

provides a net output of 123 kW 165 HP. This engine is EPA Tier 4 Final emissions certified.

Komatsu Variable Geometry Turbocharger (KVG T)

uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) system

reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Large displacement high efficiency pumps

provide high flow output at low engine speed, improving efficiency.

Komatsu's Closed-centre Load Sensing System (CLSS)

provides quick response and smooth operation to maximise productivity.

Enhanced working modes

are designed to match engine speed, pump delivery, and system pressure to the application.

The **KOMTRAX**® telematics system is standard on Komatsu equipment with no subscription fees. Using the latest wireless technology, **KOMTRAX**® transmits valuable information such as location, utilisation, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. **KOMTRAX**® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

Large LCD Colour Machine Monitor

- 7" high resolution screen
- Provides "Ecology Guidance" for fuel efficient operation
- Enhanced attachment control

KomVision

Standard for PC210LCi-11, coming soon for PC210LC-11.

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 air suspension seat with new adjustable arm rests
- Integrated ROPS cab design – Conforms to [ISO 12117-2 for excavators, also satisfies Level 1 operator Protective Guard [OPG] and Top guard [ISO 10262]
- AUX jack and [2] 12V power outlets



Komatsu designed and manufactured components

Wide access service doors

provide easy access for ground level maintenance.

Handrails (standard)

on both sides provide more convenient access to the upper structure.

Lockable single pole battery isolation switch

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

Komatsu Auto Idle Shutdown

helps reduce idle time and operating costs.

Operator Identification System (coming soon)

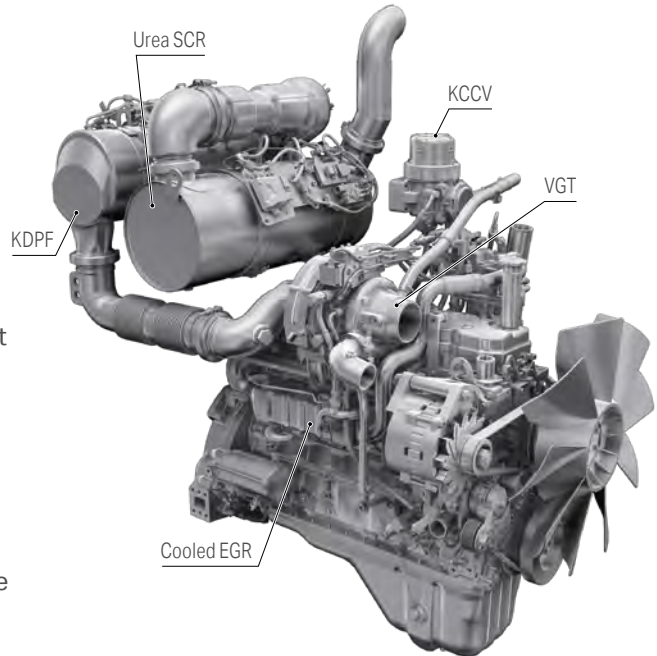
can track machine operation for more than 100 operators.

Performance features

Komatsu new engine technologies

New Tier 4 Final Engine

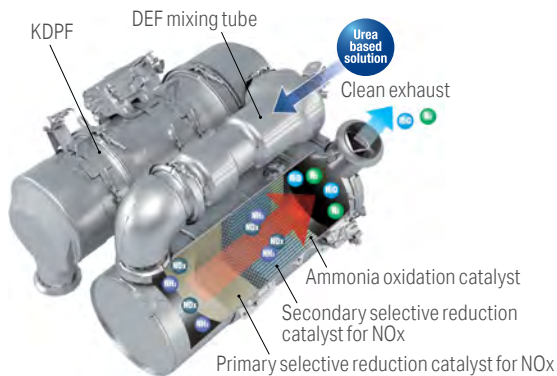
The Komatsu SAA6D107E-3 engine is EPA Tier 4 Final emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces particulate matter (PM) and nitrogen oxides (NOx) by 90% when compared to Tier 3 levels. Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.



Technologies Applied to New Engine

Heavy-duty aftertreatment system

This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapour (H2O) and nitrogen gas (N2).



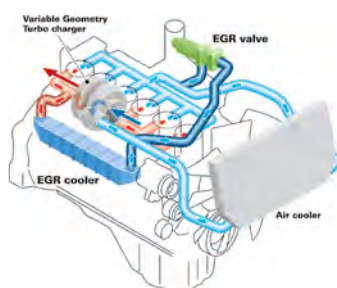
Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment in all conditions of use. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

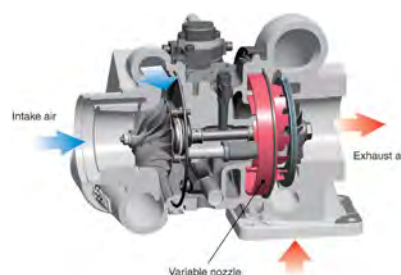
The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures to reduce NOx emissions.

Furthermore, while EGR gas flow is increased, by incorporating a high-efficiency and compactly designed cooling system, the system achieves a dynamic reduction of NOx, while helping reduce fuel consumption.



Komatsu Variable Geometry Turbocharger (KVGT) system

The VGT system features proven Komatsu designed hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.



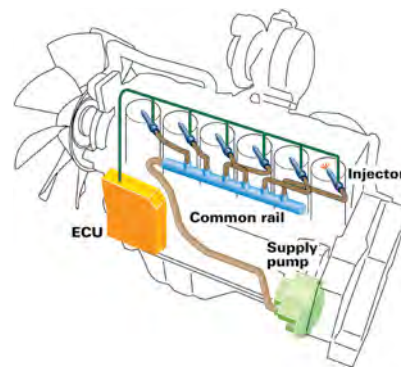
Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions.



Heavy-Duty High-Pressure Common Rail (HPCR) Fuel Injection System

The system is designed to achieve an optimal injection of high-pressure fuel by means of computerised control, providing close to complete combustion to reduce PM emissions. While this technology is already used in current engines, the new system uses high pressure injection, thereby reducing PM emissions over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced soot levels.



Performance features

Efficient Hydraulic System

The PC210/LC-11 uses a Closed-centre Load Sensing System (CLSS) that improves fuel efficiency and provides quick response to the operator's demands. The PC210/LC-11 also incorporates new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.



Photo may include overseas specification.

Large Displacement High Efficiency Pump

Large displacement hydraulic implement pumps provide high flow output at lower engine RPM as well as operation at the most efficient engine speed.



Working Mode Selection

The PC210/LC/LCi-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). An enhanced Power Mode provides improved hydraulic power and faster cycle times for improved performance in demanding applications. Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC210/LC/LCi-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

| Working Mode | Application | Advantage |
|--------------|-----------------------------|--|
| P | Power Mode | Maximum production, power and multifunction |
| E | Economy Mode | Good cycle times with reduced fuel consumption |
| L | Lifting Mode / Fine Control | Increased lifting power and fine control |
| B | Breaker Mode | One way flow for hydraulic breaker operation |
| ATT/P | Attachment Power Mode | Two way flow with maximum power |
| ATT/E | Attachment Economy Mode | Two way flow with most efficient fuel economy |

- P** Performance priority
P mode
- E** Fuel savings priority
E mode
- L** Lifting operation
L mode
- B** One way flow breaker operation
B mode
- ATT/P** Two way flow attachment – Power
ATT/P mode
- ATT/E** Two way flow attachment – Economy
ATT/E mode

High Rigidity Work Equipment

Booms and arms are constructed with thick plates of high tensile strength steel. In addition, these structures are designed with large cross sectional areas and large one piece steel castings in the boom foot, the boom tip, and the arm tip. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress. A standard HD boom design provides increased strength and reliability.



Work environment



Work environment



Comfortable Working Space

Wide spacious cab

The wide spacious cab includes a heated air suspension seat with reclining backrest. The seat height and position are easily adjusted using a pull-up lever. The armrest position is easily adjusted together with the console.

Arm rest with simple height adjustment function

Arm rest with simple height adjustment function. A knob and plunger on the armrests allows easy height adjustment without the use of tools.



Pressurised cab

Automatic climate control

Low vibration with cab damper mounting.

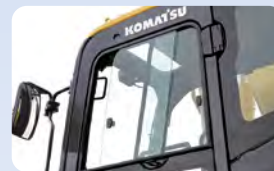
IMC 2.0 UHF & Network Antenna

ICT Antenna for UHF and Network correction service and remote support capability.



Standard Equipment

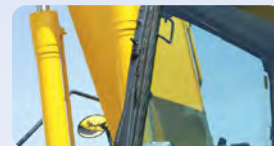
Sliding window glass (left side)



Radio, Bluetooth and USB Media System



Remote intermittent wiper with windshield washer



Emergency stop and level indicator



ISO Level 2 OPG



Magazine box and cup holder



Defroster (conforms to the ISO standard)



One-touch storable front window lower glass



Large high resolution LCD monitor



New Monitor Panel Interface Design

An updated large high resolution LCD colour monitor enables accurate and smooth work. The interface has been redesigned to display key machine information in a new user friendly interface. A rear view camera and an DEF level gauge display have been added to the default main screen. The interface has a function that enables the main screen mode to be switched, thus enabling the optimum screen information for the particular work situation to be displayed.

Indicators

- | | |
|------------------------------------|-----------------------------|
| 1 Auto-decelerator | 8 Fuel gauge |
| 2 Working mode | 9 DEF level gauge |
| 3 Travel speed | 10 Service metre, clock |
| 4 Ecology gauge | 11 Fuel consumption gauge |
| 5 Camera display | 12 Guidance icon |
| 6 Engine coolant temperature gauge | 13 Function switches |
| 7 Hydraulic oil temperature gauge | 14 Camera direction display |
| | 15 DEF level caution lamp |

Basic operation switches

- | | |
|-------------------------|-------------------------|
| 1 Auto-decelerator | 5 Wiper |
| 2 Working mode selector | 6 Window washer |
| 3 Travel speed selector | 7 Auto climate controls |
| 4 Buzzer cancel | |

KomVision

(Standard on all models manufactured after August 2021)

Images from 4 camera's are combined to display a "birds eye" view of the area around the machine for improved operator awareness. A second display with selectable individual camera views of the left, rear, and right sides is easily changed using the F4 button. A red line continuously shows where the counterweight will be during swinging and a camera icon indicates which camera is being displayed on individual camera display screen.



Visual user menu

Pressing the F6 key on the main screen displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated easily.



- | | |
|---------------------------------------|-------------------|
| 1 Energy saving guidance | 4 SCR information |
| 2 Machine settings | 5 Maintenance |
| 3 Aftertreatment devices regeneration | 6 Monitor setting |
| | 7 Message check |

Work environment

Support Efficiency Improvement

Ecology guidance

While the machine is operating, ecology guidance pops up on the monitor screen to notify the operator of the status of the machine in real time.

Ecology gauge and fuel consumption gauge

The monitor screen is provided with an ecology gauge and also a fuel consumption gauge which is displayed continuously.

In addition, the operator can set any desired target value of fuel consumption (within the range of the green display), enabling the machine to be operated with better fuel economy.



Ecology gauge | Fuel consumption gauge
Ecology guidance

Operator Identification Function

An identification ID can be set up for individual operator, application or jobs, and used to manage operation information of individual machines using KOMTRAX data. Data sent from KOMTRAX can be used to analyse operation status by operator as well as by machine.



Operation record, fuel consumption history, and ecology guidance record

The ecology guidance menu enables the operator to check the operation record, fuel consumption history and ecology guidance record from the ecology guidance menu, using a single touch, thus enabling the total fuel consumption to be reduced.



Operation record



Ecology guidance record



Fuel consumption history



intelligent machine control



Make Every Pass Count

Improve your efficiency – intelligent Machine Control means fast excavation to finish grade.

Semi-automatic operation – new features such as bucket angle hold control provide high levels of accuracy and comfort.



Innovative

- intelligent Machine Control excavator features semi-automatic operation of work equipment for highly accurate work.
- Compact 10.4" iMC monitor with increased memory capacity, processing speed, and pinch to zoom capability.

NEW

Integrated

- Complete factory-installed and integrated intelligent Machine Control system comes standard with stroke sensing hydraulic cylinders.
- Multiple Global Navigation Satellite System (multi-GNSS) components and an Inertial Measurement Unit (IMU) sensor. All components are validated to Komatsu's rigid quality and durability standards.
- Multi-band UHF/915SS radio improves job site flexibility.
- 3G/4G LTE connectivity for fast reliable job site connectivity.
- DUHF II Radio Standard fitment & 915SS Optional equipment – offers improved jobsite flexibility.

NEW

NEW

NEW

NEW

Intelligent

- Intelligent Machine Control excavator allows the operator to focus on moving material efficiently while semi-automatically tracing the target surface and limiting over-excavation.
- Facing angle compass, light bar and sound guidance aid in ease of operation and bucket positioning.
- Bucket Angle Hold and optional Auto-Tilt Attachment Control increase ease of operation and improve productivity and efficiency.

NEW



intelligent machine control



intelligent Machine Control

intelligent Machine Control is based on Komatsu's unique sensor package, including stroke sensing hydraulic cylinders, an IMU sensor, and GNSS antennas. It utilises 3D design data loaded in the control box to accurately check its position against the target. If the bucket hits the target surface, it is semi-automatically limited to minimise over-excavation. If the operator turns off Auto mode, the machine can be operated with highly accurate, responsive machine guidance, with the machine only providing indication guidance.



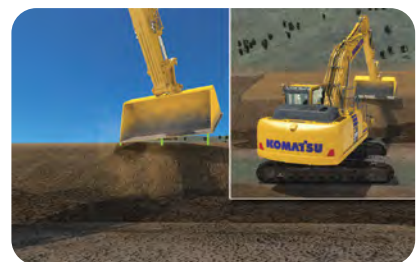
• Auto grade assist

With the auto grade assist function, the operator moves the arm, the boom adjusts the bucket height automatically, tracing the target surface and minimising digging too deep. This allows the operator to perform rough digging without worrying about the design surface, and to perform fine digging by operating the arm lever only. The working range is extended by holding the lever to move the boom downward.



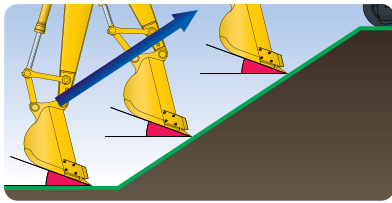
• Auto stop control

During boom or bucket operation, the work equipment automatically stops when the bucket edge reaches the design surface, thus minimising damage to the design surface.



• Minimum distance control

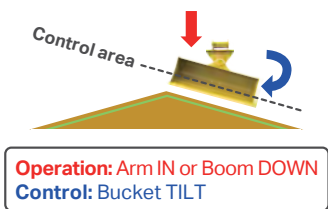
The intelligent Machine Control excavator controls the bucket by automatically selecting the point on the bucket closest to the target surface. Should the machine not be facing a sloped surface at a right angle, it will still follow the target surface and minimise digging below it.



NEW

• Bucket angle hold control

Operator sets desired bucket angle and the system automatically maintains bucket angle throughout the grading pass. Angle hold control increases ease of operation and improves final grading accuracy.



NEW

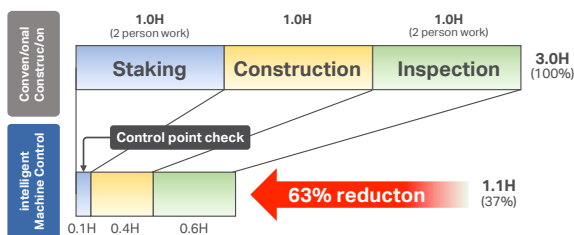
Operation: Arm IN or Boom DOWN
Control: Bucket TILT

• Auto-tilt Attachment Control

Automatically tilts bucket to design surface and returns it to horizontal to unload. Using auto tilt control with the existing minimum distance control and auto grade assist makes complex grading quicker and easier.

Improved Construction Efficiency

Staking, survey and final inspection (which is usually done manually), can be reduced with the intelligent Machine Control excavator by setting 3D design data on the control box. Also, use of the facing angle compass can minimise leveling work for the surface on which the machine sits. Even if the machine is inclined while working, the facing angle compass allows the operator to ensure that the machine is facing perpendicular to the target surface. The intelligent Machine Control technology allows the operator to improve work efficiency (i.e. shorter construction time) while minimising over-excavating the target surface from rough digging to finish grading.

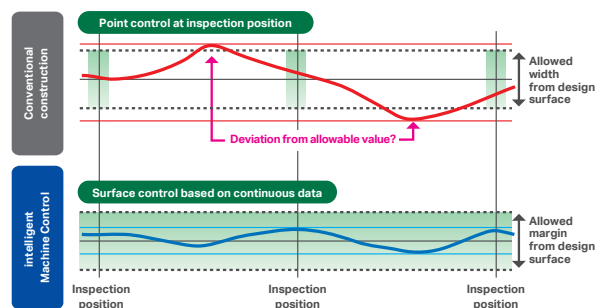


* When used by a qualified iMC operator, the Komatsu intelligent Machine Control system increases construction efficiency.
* The above data does not include design time or working data creation time. The above data is based on in-house construction tests, performed by Komatsu, whose conditions may differ from actual construction.

Improved Work Accuracy

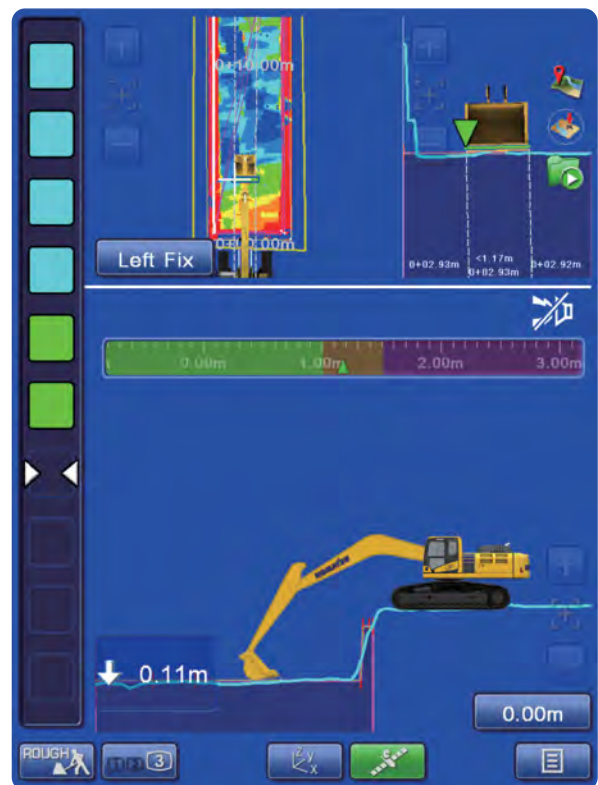
The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in highly accurate work. With manual operation and conventional machine guidance, finish grade quality and excavating accurately depends heavily on the skill of the operator. With the intelligent Machine Control excavator, the bucket is automatically limited to follow the target grade without over-excavating.

Relationship Between Finished Surface and Allowable Value



As-Built Surface Mapping

Operator can display and check the as-built status and find where to cut and fill.



intelligent machine control

Control box

The monitor of the Komatsu intelligent Machine Control (control box) uses a compact 10.4" screen for visibility and ease of use. The simple screen layout displays the necessary information in an easily understood fashion. Touch screen icon interface instead of multi-step menu simplifies operation.



Preset Elevation Offset Quick Button +0.500'

Pre-determined offsets can be stored in the monitor to allow an operator to easily switch between preset grades.

NEW

| | | |
|---------------|--------|-------|
| Offset preset | 0.000' | Apply |
| | 0.500' | Apply |
| | 1.500' | Apply |

Button switch mode: Offset preset

Quick Bucket Swap Button **NEW**

Allows users to quickly swap between various buckets without having to enter main menu. This lessens the time a user takes to change out a bucket on the monitor.

Machine Navigation

Facing angle compass

The orientation and colour of the facing angle compass's arrow shows the operator the facing angle of the bucket edge relative to the target surface.



This allows the bucket edge to be accurately positioned square with the target surface, which is useful when finishing slopes.

Enhanced operability of the machine control **NEW**

Semi-auto/manual mode switching and design surface offset function can be operated with switches on the control levers.



Factory installed Komatsu intelligent Machine Control components

PC210/LC-11 / PC210LCi-11



Stroke sensing hydraulic cylinder
A stroke sensor is built into the cylinder. This sensor provides accurate, real time bucket position which is immediately displayed on the control box, speeding up your work.

NEW
Control box
A large, easy-to-view monitor designed for Komatsu intelligent Machine Control.

Proportional control levers

NEW
Multi-GNSS antenna

Inertial Measurement Unit (IMU)
High accuracy in the finishing work is secured by Inertial Measurement Unit (IMU) detecting the machine posture.

NEW
Multi-GNSS receiver

Auto-tilt Attachment Control

Standard Local Options providing first 12 months support:

(includes: Standard 3G/4G modem with DATA & SIM, industry leading ICT machine OEM service support agreement with iMC 2.0)



Remote control
Assist the operator by taking control of their GNSS equipment in real-time.



File transfer history
Overview of when, and which, files have been transferred.



Remote view
Real-time remote image of the GNSS equipment.



Office to machine transfer
Send the latest design files from the office to your machines.



Machine to office transfer
Download files that have been collected on your system (survey results, as-built data, ...)



Offline file transfer
Machine offline? No issue. Files are stored in cloud, operator will see updated model at machine switch on.



Batch file transfer
Send files to multiple machines in one click.

intelligent machine control

Work smarter from rough digging to finish grade

Give your operators the power to work more effectively than with conventional aftermarket machine guidance (indicate only) or manual operation. Intelligent Machine Control (iMC) excavators with semi-automatic control offer the capability to work smart from rough digging to finish grading, and help minimise over-excavation to make every pass count.

- Semi-automatic for trenching, slope work and high production applications
- Protection + precision + performance = the formula for pursuing maximum productivity versus conventional machine guidance



Photo may include overseas specification.



Working smarter in every way

Benefits of iMC 2.0



Save money

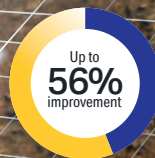
Frees GPS Dozer from need to achieve final grade so it can work elsewhere on the site.



Save time

Reduce staking, grading and inspection with 3D design data and semi-automatic grading.

Photo may include overseas specification. PC360LCi-11 shown.



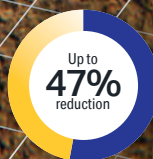
Less time grade checking

Monitor performance and stay on grade from the cab: operators spend time working, not grade checking.



Improve accuracy

Continuously monitor grade and semi-automatics to dig precisely to grade.



Reduce base aggregate

Greatly reduce over-digging and the amount of costly base aggregate needed for applications like utilities.

**All savings, improvements, and reductions are compared to traditional grading methods.*

Maintenance features



PC290LCi-11 shown.

Large capacity air cleaner

The larger air cleaner can extend air cleaner life during long-term operation and helps prevent early clogging, and resulting power loss. A radial seal design is used for reliability.



Engine Access

Large rear opening hood provides excellent maintenance and service access to key engine components.



Fuel Filters

Large high-efficiency fuel filter and pre-filter with water separator removes contaminants from fuel for improved fuel injection system life.



High efficiency fuel filter Fuel pre-filter (with water separator)

Easy access to engine oil filter and fuel drain valve

Engine oil filter and fuel drain valve are remote mounted to improve accessibility.



Battery isolation switch

A standard battery isolation switch allows a technician to disconnect the power supply and lock out before servicing the machine.



Air conditioner filter

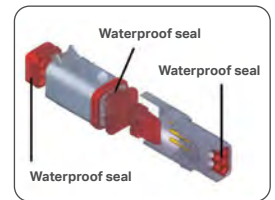
The air conditioner filter can be removed and installed without the use of tools for easy filter maintenance.

- Washable cab floormat**
- Sloping track frame**
- Long-life oils, filters**

| | |
|--------------------------------|------------------|
| Engine oil & Engine oil filter | every 500 hours |
| Hydraulic oil | every 5000 hours |
| Hydraulic oil filter | every 1000 hours |

DT-type connectors

Sealed DT-type electrical connectors provide high reliability, water and dust resistance.



Diesel Exhaust Fluid (DEF) tank

A large tank volume extends operating time before refilling and is installed on the right front platform for easy access. DEF tank and pump are separated for improved service access.



Maintenance information

"Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours*, a maintenance time monitor appears. Pressing the F6 key switches the monitor to the maintenance screen.

*: The setting can be changed within the range between 10 and 200 hours.



Maintenance screen

Manual Stationary Regeneration

Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel. A soot level indicator is displayed to show how much soot is trapped in the KDPP.

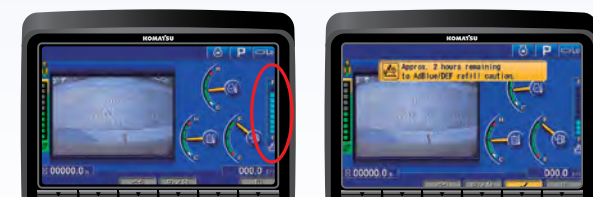
Soot level indicator



Aftertreatment device regeneration screen

Supports the DEF level and refill timing

The DEF level gauge is displayed continuously on the right side of the monitor screen. In addition, when DEF level is low, DEF low level guidance messages appear in pop up displays to inform the operator in real time.



DEF level gauge

DEF low level guidance

Maintenance features

KALSS

Australian standard specification



Rotating Amber Beacon
Fitted with factory guard.



Level Indicator, Overload Alarm & Anti-Burst Valves
Enable safety and compliance when lifting suspended loads.



Additional Lighting
Extra lighting on cab and counterweight for improved visibility.



Proportional Hand Controls
Enables proportional hand control of attachment speed.



Higher capacity air conditioner
With increased cool down performance.

Bump rails
For upper protection when slewing.

Rock guard
Reinforced steel plate and ribs to provide additional protection of arm structure.

Revolving frame under covers
Protects and prevents ingress of material into engine bay.

Factory fitted quick hitch and hammer piping
Enables use with a greater variety of attachments. Also fitted with provision for tilt circuit including valve.



Lower Front Window Guard
Protects cabin windscreen against rocks and debris.



Battery Isolation
Single pole, lockable Bosch-type battery isolation.



E-Stops
Allow compliance to site safety requirements.



Bolt-on Top Guard
OPG level 2 (ISO 10262) for falling object protection.

Specification also includes factory fitted provisions for fire extinguisher, turbo timer, UHF and vandal covers to reduce lead times and costs. Photos may include optional equipment.



Stroke sensing hydraulic cylinder
A stroke sensor is built into the cylinder. This sensor provides accurate, real time bucket position which is immediately displayed on the control box, speeding up your work.

Inertial Measurement Unit (IMU)
High accuracy in the finishing work is secured by Inertial Measurement Unit (IMU) detecting the machine posture.

NEW
Multi-GNSS receiver

NEW
Control box
A large, easy-to-view monitor designed for Komatsu intelligent Machine Control.

Proportional control levers

NEW
Multi-GNSS antenna

Auto-tilt Attachment Control

| Standard iMC Specification included | iMC 1.0 | iMC 2.0 |
|--------------------------------------|---------|---------|
| 3G/4G Modem (remote/network) | ✓ | ✓ |
| DUHF II and Network Antenna | ✓ | ✓ |
| Auto-Tilt Attachment (IMU Kit) | | ✓ |
| DUHF II – Digital UHF II radio Board | ✓ | ✓ |
| SC Service Level Agreement | ✓ | ✓ |
| Bucket Angle Hold | | ✓ |

KOMTRAX equipment monitoring

Get the whole story with



What

- KOMTRAX is Komatsu's remote equipment monitoring and management system. KOMTRAX continuously monitors and records machine health and operational data.
- Information such as fuel consumption, utilisation, and a detailed history lowering owning and operating cost.

Who

- KOMTRAX is standard equipment on all Komatsu construction products.

When

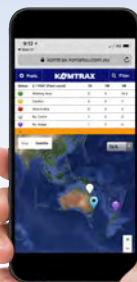
- Know when your machines are running or idling and make decisions that will improve your fleet utilisation.
- Detailed movement records ensure you know when and where your equipment is moved.
- Up to date records allow you to know when maintenance is due and help you plan for future maintenance needs.

Where

- KOMTRAX data can be accessed virtually anywhere through your computer, the web or your smart phone.
- Automatic alerts keep fleet managers up to date on the latest machine notifications.

Why

- Knowledge is power – make informed decisions to manage your fleet better.
- Knowing your idle time and fuel consumption will help maximise your machine efficiency.
- Take control of your equipment – any time, anywhere.



KOMTRAX

For construction and compact equipment.

KOMTRAX Plus

For production and mining class machines.

Specifications

Engine

| | |
|---------------------------------------|---|
| Model | Komatsu SAA6D107E-3* |
| Type | Water-cooled, 4-cycle, direct injection |
| Aspiration | Variable geometry turbocharged, aftercooled, cooled EGR |
| Number of cylinders | 6 |
| Bore | 107 mm 4.21" |
| Stroke | 124 mm 4.88" |
| Piston displacement | 6.69 ltr 408 in³ |
| Horsepower: | |
| ISO 9249 / SAE J1349 | Net 122.8 kW 165 HP |
| Fan at maximum speed | Net 118.6 kW 159 HP |
| Rated rpm | 2000 |
| Fan drive method for radiator cooling | Mechanical Mechanical with viscous fan clutch |
| Governor | All-speed control, electronic |

*EPA Tier 4 Final emissions certified

Hydraulics

| | | | |
|------------------------------------|---|-------------------------------|-----------|
| Type | HydrauMind (Hydraulic Mechanical Intelligence system, closed-centre system with load sensing valve and pressure compensated valves) | | |
| Number of selectable working modes | 6 | | |
| Main pump: | | | |
| Type | Variable displacement piston type | | |
| Pumps for | Boom, arm, bucket, swing, and travel circuits | | |
| Maximum flow | 490 ltr/min | 129.4 gal/min | |
| Supply for control circuit | Self reducing valve | | |
| Relief valve setting: | | | |
| Implement circuits | 37.3 MPa | 380 kgf/cm² | 5,400 psi |
| Travel circuit | 37.3 MPa | 380 kgf/cm² | 5,400 psi |
| Swing circuit | 28.9 MPa | 285 kgf/cm² | 4,190 psi |
| Pilot circuit | 3.2 MPa | 33 kgf/cm² | 470 psi |

Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

| | | |
|--------|-----------------------------------|---------------------|
| Boom | 2-130 mm x 1334 mm x 90 mm | 5.1" x 52.5" x 3.5" |
| 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 lever with pedals |
| Drive method | Hydrostatic |
| Maximum drawbar pull | 202 kN 20570 kg 45,349 lb |
| Gradeability | 70%, 35° |
| Maximum travel speed (auto shift): | |
| High | 5.5 km/h 3.4 mph |
| Mid | 4.1 km/h 2.5 mph |
| Low | 3.0 km/h 1.9 mph |
| Service brake | Hydraulic lock |
| Parking brake | Mechanical disc brake |

Swing system

| | |
|--------------------------|--------------------------------|
| Drive method | Hydrostatic |
| Swing reduction | Planetary gear |
| Swing circle lubrication | Grease-bathed |
| Service brake | Hydraulic lock |
| Holding brake/Swing lock | Mechanical disc brake |
| Swing speed | 12.4 rpm |
| Swing torque | 6900 kg•m 49,907 ft lbs |

Undercarriage

| | |
|---------------------------------------|--------------|
| Centre frame | X-frame |
| Track frame | Box-section |
| Seal of track | Sealed track |
| 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 | 400 ltr | 105.7 U.S. gal |
| Coolant | 30.1 ltr | 8.1 U.S. gal |
| Engine | 23.1 ltr | 6.1 U.S. gal |
| Final drive, each side | 5.0 ltr | 1.3 U.S. gal |
| Swing drive | 6.5 ltr | 1.7 U.S. gal |
| Hydraulic tank | 132 ltr | 34.9 U.S. gal |
| Hydraulic system | 234 ltr | 61.8 U.S. gal |
| DEF tank | 23.1 ltr | 6.1 U.S. gal |

Operating weight (approximate)

Operating weight includes **5700 mm** one-piece HD boom, **2900 mm** HD arm, rated capacity of lubricants, coolant, full fuel tank, operator, standard equipment, KGA dual lock quick hitch, and SAE heaped **0.97 m³** bucket.

| Triple-grouser shoes | Operating weight | | Ground pressure | |
|----------------------|------------------|------------|-------------------------|-------------------------|
| | PC210-11 | PC210LC-11 | PC210-11 | PC210LC-11 |
| 600 mm | 22,640 kg | 23,240 kg | 0.52 kg/cm ² | 0.49 kg/cm ² |
| 700 mm | 22,890 kg | 23,510 kg | 0.46 kg/cm ² | 0.42 kg/cm ² |
| 800 mm | 23,180 kg | 23,830 kg | 0.41 kg/cm ² | 0.38 kg/cm ² |

Component weights

Arm including bucket cylinder and linkage:

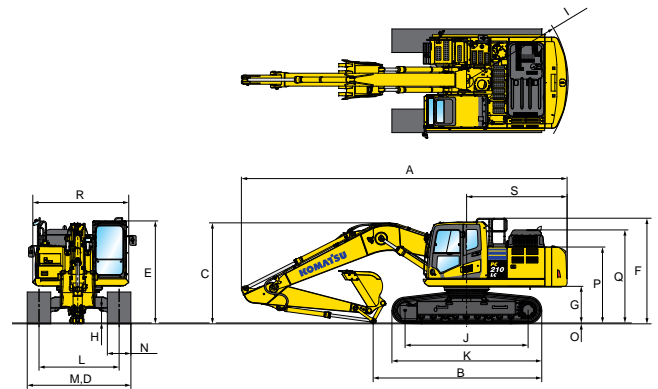
| | | |
|---|----------------|----------|
| 2900 mm HD arm assembly | 1200 kg | 2,646 lb |
| One piece HD boom including arm cylinder: | | |
| 5700 mm boom assembly | 1953 kg | 4,306 lb |
| Boom cylinders x 2 | 205 kg | 452 lb |
| Counterweight (standard) | 3830 kg | 8,443 lb |

PC210/LC-11 / PC210LCi-11

Dimensions

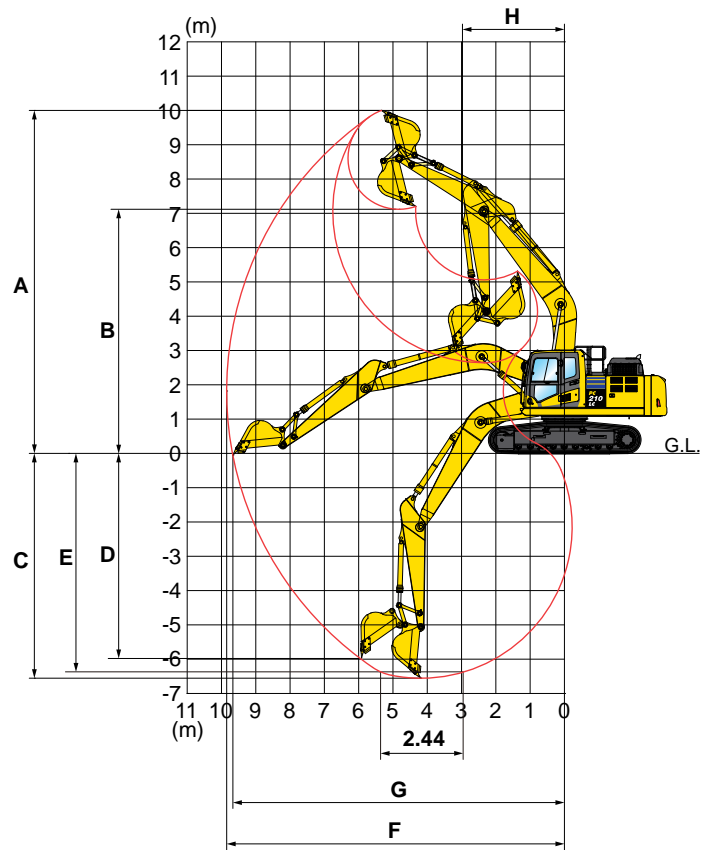
| Arm Length | 2900 mm | |
|---|----------|------------|
| | PC210-11 | PC210LC-11 |
| A Overall length | 9705 mm | 9705 mm |
| B Length on ground (transport) | 5000 mm | 5000 mm |
| C Overall height (to top of boom)* | 2995 mm | 2995 mm |
| D Overall width | 2800 mm | 2980 mm |
| E Overall height (to top of cab)* | 3045 mm | 3045 mm |
| F Overall height (to top of handrail)* | 3135 mm | 3135 mm |
| G Ground clearance, counterweight | 1085 mm | 1085 mm |
| H Ground clearance, minimum | 440 mm | 440 mm |
| I Tail swing radius | 3020 mm | 3020 mm |
| J Track length on ground | 3275 mm | 3655 mm |
| K Track length | 4070 mm | 4450 mm |
| L Track gauge | 2200 mm | 2380 mm |
| M Width of crawler | 2800 mm | 2980 mm |
| N Shoe width | 600 mm | 600 mm |
| O Grouser height | 26 mm | 26 mm |
| P Machine cab height | 2250 mm | 2250 mm |
| Q Machine height to top of engine cover | 2765 mm | 2765 mm |
| R Machine upper width | 2850 mm | 2850 mm |
| S Distance, swing centre to rear end | 2990 mm | 2990 mm |

* Including grouser height

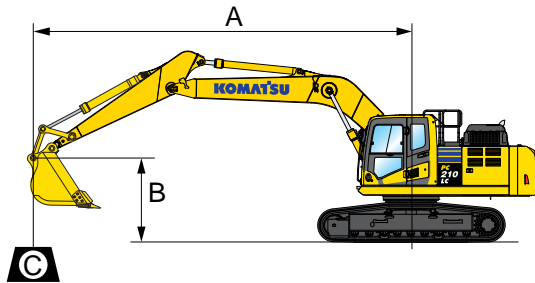


Working range

| Arm Length | 2900 mm |
|--|--------------------|
| A Max. digging height | 10000 mm |
| B Max. dumping height | 7110 mm |
| C Max. digging depth | 6620 mm |
| D Max. vertical wall digging depth | 5980 mm |
| E Max. digging depth for 8° level bottom | 6370 mm |
| F Max. digging reach | 9875 mm |
| G Max. digging reach at ground level | 9700 mm |
| H Min. swing radius | 3040 mm |
| SAE rating: | |
| Bucket digging force at power max. | 132 kN 13500 kg |
| Arm crowd force at power max. | 103 kN 10500 kg |
| ISO rating: | |
| Bucket digging force at power max. | 149 kN 15200 kg |
| Arm crowd force at power max. | 108 kN 11000 kg |



Lift capacities



| | |
|-----|-------------------------|
| A: | Reach from swing centre |
| B: | Bucket hook height |
| C: | Lifting capacity |
| Cf: | Rating over front |
| Cs: | Rating over side |
| ⊗: | Rating at maximum reach |

Conditions :

| | |
|--------------|-----------------------|
| Boom length: | 5700 mm |
| Arm length: | 2900 mm |
| Shoes: | 600 mm triple grouser |
| Bucket: | 650 kg |

Unit: kg

PC210-11

| A/B | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | ⊗ MAX | |
|--------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs |
| 7.5 m | - | - | - | - | - | - | *4050 | *4050 | - | - | *2850 | *2850 |
| 6.0 m | - | - | - | - | - | - | *4250 | *4250 | *3050 | *3050 | *2750 | *2750 |
| 4.5 m | - | - | - | - | *5500 | *5500 | *4850 | 4550 | 4500 | 3050 | *2750 | 2600 |
| 3.0 m | - | - | *11550 | *11550 | *7700 | 6800 | *5850 | 4250 | 4400 | 2900 | *2900 | 2300 |
| 1.5 m | - | - | *6800 | *6800 | 9600 | 6250 | 6100 | 4000 | 4250 | 2750 | *3200 | 2200 |
| 0 m | - | - | *5200 | *5200 | 9350 | 5850 | 5850 | 3800 | 4100 | 2650 | 3450 | 2250 |
| -1.5 m | *5150 | *5150 | *9300 | *9300 | 9150 | 5750 | 5750 | 3700 | 4050 | 2600 | 3750 | 2450 |
| -3.0 m | *9750 | *9750 | *14800 | 11500 | 9250 | 5800 | 5750 | 3700 | - | - | 4500 | 2900 |
| -4.5 m | - | - | *12900 | *11550 | *9050 | 6000 | - | - | - | - | 6400 | 4150 |

* 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.

PC210LC-11

| A/B | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | ⊗ MAX | |
|--------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs |
| 7.5 m | - | - | - | - | - | - | *4050 | *4050 | - | - | *2850 | *2850 |
| 6.0 m | - | - | - | - | - | - | *4250 | *4250 | *3050 | *3050 | *2750 | *2750 |
| 4.5 m | - | - | - | - | *5500 | *5500 | *4850 | *4850 | *4550 | 3450 | *2750 | *2750 |
| 3.0 m | - | - | *11550 | *11550 | *7700 | 7600 | *5850 | 4850 | *5050 | 3350 | *2900 | 2650 |
| 1.5 m | - | - | *6800 | *6800 | *9750 | 7100 | *6900 | 4550 | 5100 | 3200 | *3200 | 2550 |
| 0 m | - | - | *5200 | *5200 | *10750 | 6750 | 7150 | 4350 | 5000 | 3050 | *3700 | 2600 |
| -1.5 m | *5150 | *5150 | *9300 | *9300 | *10900 | 6600 | 7000 | 4250 | 4950 | 3000 | *4600 | 2800 |
| -3.0 m | *9750 | *9750 | *14800 | 13400 | *10500 | 6650 | 7050 | 4250 | - | - | 5500 | 3350 |
| -4.5 m | - | - | *12900 | *12900 | *9050 | 6850 | - | - | - | - | *6650 | 4750 |

* 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.

PC210/LC-11 / PC210LCi-11

Standard equipment

- 3 speed travel with auto shift
- Access handrails – counterweight
- Alternator, 90 A, 24 V
- Arm, 2900 mm
- Auto idle
- Auto idle shut down
- Automatic air conditioner, large capacity
- Automatic engine warm-up system
- Auxiliary input (3.5 mm jack)
- Batteries, large capacity
- Battery isolation switch, lockable
- Boom, 5700 mm
- Boom and arm burst valve protection
- Bump rails
- Cab guards
 - Lower front window guard
 - Integrated top guard, OPG Level 1
 - Bolt on top guard, OPG Level 2
- Carrier rollers, (2 each side)
- Converter, (2) x 12 V
- Counterweight, 3830 kg
- Dry type air cleaner, double element
- Dual flow hammer piping
- Electric horn
- Emergency stops (3)
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-3
- Fan guard structure
- Fire extinguisher, 1.5 kg (for PC210LCi-11)
- Fuel system pre-filter 10 micron
- Guard belly plate (for PC210LCi-11)
- High back air suspension seat, with heat
- High pressure in-line hydraulic filters
- Hydraulic track adjusters
- HydraMind closed centre load sensing system
- KOMTRAX
- KomVision (Standard on all models manufactured after August 2021)
- Large LCD colour monitor, high resolution
- Level indicator
- Lock lever
- Lock lever, auto-lock
- Mirrors (LH, RH & sidewise)
- Operator identification system (available August 2021)
- Overload alarm
- Payload
- Power maximising system
- PPC hydraulic control system
- Proportional control handles
- Provision for tilt circuit, including valve
- Pump/engine room partition cover
- Quick hitch piping with safety switch and alarm
- Radiator and oil cooler dustproof net
- Radio Bluetooth USB media system
- Rear reflectors
- Revolving frame undercovers
- ROPS cab (ISO 12117-2) with vandal guard provisions
- Rearview monitoring system (1 camera) (For PC210LC-11 models manufactured before August 2021)
- Rotating beacon (LED) with guard
- Seat belt indicator
- Seat belt, retractable, 78 mm
- Secondary engine shutdown switch
- Side access hand rails
- Side by side coolers
- Slip resistant foot plates
- Starter motor, 5.5 kW/24 V x 1
- Suction fan
- Thermal and fan guards
- Track roller guides, 3 each side
- Track rollers, 9 each side
- Track frame swivel guard
- Track shoes, triple grouser, 600 mm
- Travel alarm
- Turbo timer
- Working lights
 - 1 x boom
 - 1 x RH
 - 3 x cab
 - 1 x counterweight
- Working mode selection system

Intelligent Machine Control

- 12 month remote access to your machine (includes data & SIM)
- 12 months service level support agreement
- Auto grade assist
- Auto stop control boom and bucket
- Auto tilt attachment control [when tilt bucket fitted]
- Bucket angle hold
- Dual multi-constellation GNSS antennas
- Excavator weighing system
- Factory integrated 3D machine control
- iMC 2.0 canvas seat cover
- Komatsu chassis mounted iMU
- Komatsu PH700 monitor
- Komatsu stroke sensors [boom/arm & bucket]
- MC-i4 with internal 4G modem
- Minimum distance control
- Network and UHF antennas
- Receiver- UR-1 UHF and 915SS radio

Optional equipment

- Autogrease system
- Battery isolation switch, dual pole, lockable
- Cab guard – Full front guard, OPG Level 2
- Cab vandal guard set
- Canvas seat cover (for PC210LC-11)
- Fire extinguisher, 1.5 kg (for PC210LC-11)
- Fire extinguisher, 4.5 kg
- Fire extinguisher, 9 kg
- Fuel cap vandal guard
- Guard belly plate (for PC210LC-11)
- Jump start receptacle
- Komvision – PC210LC-11 (units with rearview monitor)
- Radio, UHF (for PC210LC-11)
- Starter circuit isolation, lockable
- Track roller guards, full length
- Track shoes, triple grouser, 700 mm
- Track shoes, triple grouser, 800 mm
- Window tinting

Attachment options

- Bucket, general purpose, KGA 600 mm, 0.39 m³
- Bucket, general purpose, KGA 900 mm, 0.68 m³
- Bucket, general purpose, KGA 1200 mm, 0.97 m³
- Bucket, slope finishing, KGA 2000 mm, 1.10 m³
- Quick hitch, KGA, dual lock
- Quick hitch, KGA, dual lock, tilting
- Ripper, KGA, single tyne

Now available

Komatsu JMHB230V-1 Hydraulic Breaker



| Model Type | JMHB230V-1 | |
|--------------------------|------------|-------------|
| Working weight | kg | 1,450 |
| Oil flow (min - max) | ℓ /min | 120 - 170 |
| Operating pressure (max) | MPa | 135 |
| Impact rate | bpm | 285 - 1,050 |
| Chisel diameter | mm | 122 |
| Acceptable back pressure | bar | 8 |
| Base machine (min - max) | Ton | 18 - 30 |

For a complete list of available attachments, please contact your local Komatsu representative.

Notes

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