KOMATSU®

PC210-8M0
PC210LC-8M0

PC
210

GROSS HORSEPOWER
Gross: 110 kW 147 HP / 2000 min^{-1}
Net: 103 kW 138 HP / 2000 min^{-1}

OPERATING WEIGHT
PC210-8M0: 20,700 kg
PC210LC-8M0: 21,600 kg

BUCKET CAPACITY
0.85-1.70 m^3

Photos may include optional equipment.

Ecology and Economy

- High-powered turbocharged and water-cooled Komatsu SAA6D107E-1 Engine
- Improved Hydraulics to optimize output
- Auto idling system to reduce fuel consumption
- Advanced technology for highly effective cooling system
- Improved fuel efficiency – 7% better than PC210-8 model

Easy Maintenance

- Long replacement interval of engine oil, hydraulic oil, engine oil filter and hydraulic filter
- Highly effective anti-slip plates for safer operation
- Large handrail step provides easy access to the engine and hydraulic components

Excellent Reliability and Durability

- Strengthened structures – Revolving frame, Arm & Boom for tough applications
- Idler guard reinforcement for longer life
- Reinforced metal strips to avoid damage to arm
- Range of buckets to address specific applications

ICT & KOMTRAX

Working Environment
- Large comfortable cab with ergonomically designed operator seat
- Low noise and vibration cab damper mounting
- Large capacity air conditioner (optional)

KOMTRAX

Information & Communication Technology

- Large multi-lingual high resolution LCD monitor
- Supports efficiency improvement
- Equipped with the EMMS monitoring system

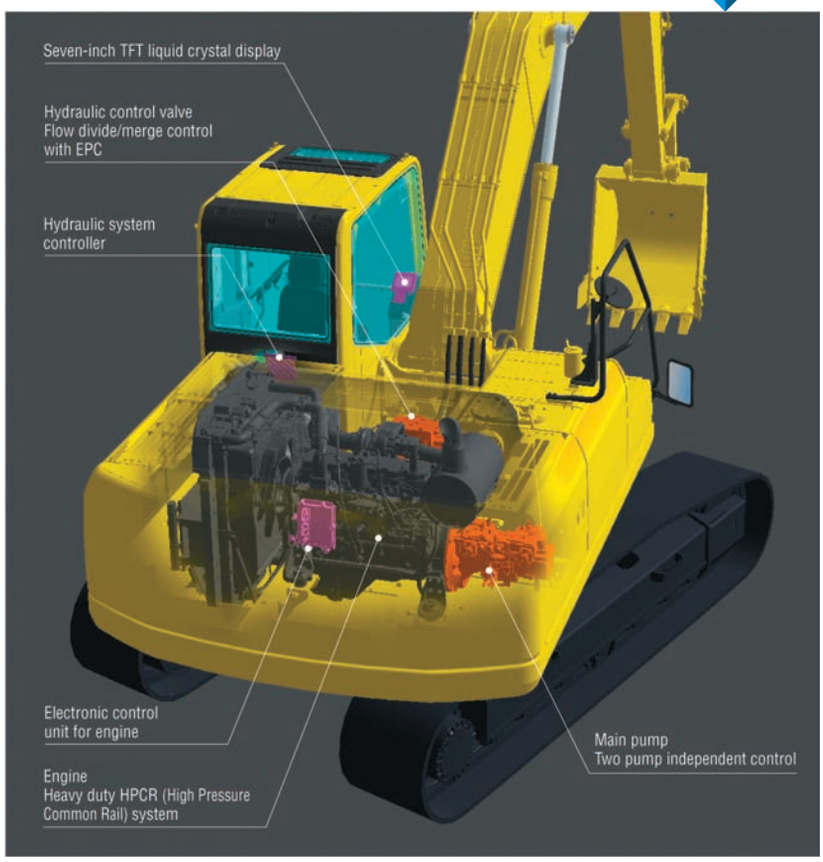
Mode Selection
- Wide range of operating modes to address variety of applications
- E mode for improved fuel efficiency
- P mode for maximizing output
- Breaker mode for optimum engine RPM and hydraulic flow

	PC210-8M0	PC210LC-8M0
HORSEPOWER	**Gross: 110 kW** 147 HP / 2000 min^{-1} **Net: 103 kW** 138 HP / 2000 min^{-1}	**110 kW** 147 HP / 2000 min^{-1} **103 kW** 138 HP / 2000 min^{-1}
OPERATING WEIGHT	20,700 kg	21,600 kg
BUCKET CAPACITY	0.85-1.70 m^3	0.85-1.70 m^3

Komatsu Technology

Komatsu develops and manufactures all major components, such as engines, electronics and hydraulic components, in-house. With this Komatsu Technology, and added customer feedback, Komatsu is making advancements.

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 fuel consumption

The newly-developed Komatsu SAA6D107E-1 engine enables NOx emissions to be significantly reduced with the accurate multi-stage fuel injection by the engine controller. It improves total engine durability using the high-pressure fuel injection system developed specifically for construction machinery. This excavator significantly reduces hourly fuel consumption using the highly-efficient matching techniques of the engine and hydraulic unit and also provides features that promote energy-saving operations such as the E mode and ECO-gauge.

Fuel Efficiency ***7% improved***

vs. PC210-8
based on typical work pattern collected via KOMTRAX.
Fuel Efficiency varies depending on job conditions.

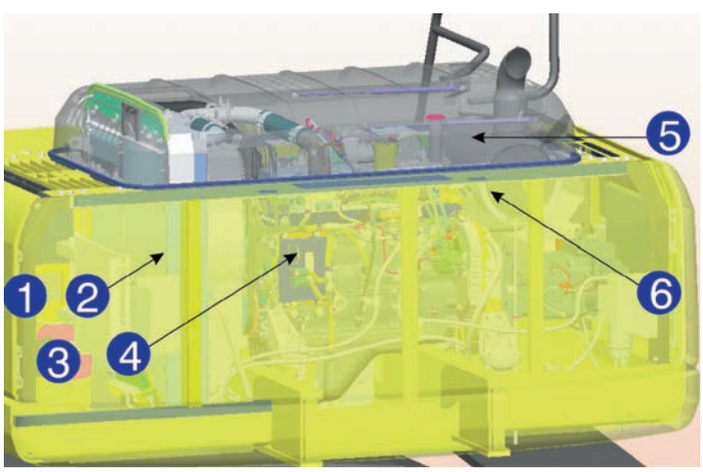
ADVANCED HYDRAULICS

Low Emission Engine

Komatsu SAA6D107E-1 has low NOx emission, and is EPA Tier 3 and EU Stage 3A emissions equivalent.

Low Operation Noise

Enables a low noise operation using the low-noise engine and methods to cut noise at source.



1 Reduced fan speed
2 Large capacity radiator
3 Electronically controlled common rail engine
4 Multi stage injection
5 Sound insulation cover
6 Low noise muffler

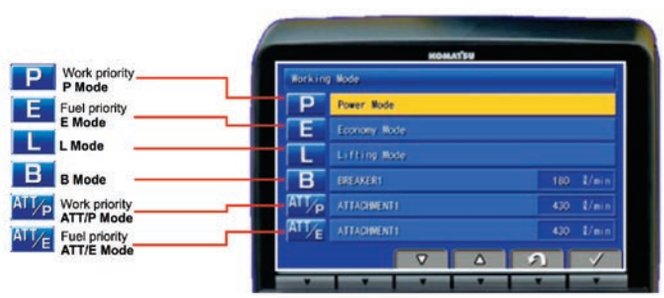
Idling caution

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

Selectable Working Modes

The PC210-8M0 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E mode). Each mode is designed to match engine speed and pump output to the application. This provides the flexibility to match equipment performance to the job at hand.

Working Mode	Application	Advantage
P	Power Mode	• Maximum production/power • Fast cycle times
E	Economy Mode	• Good cycle times • Better fuel Economy
B	Breaker Mode	• Optimum engine RPM and hydraulic flow
L	Lifting Mode	• Suitable attachment speed
ATT/P	Attachment Power Mode	• Optimum engine RPM, Hydraulic flow 2 way • Power mode
ATT/E	Attachment Economy Mode	• Optimum engine RPM, Hydraulic flow 2 way, • Economy mode



Lifting Mode

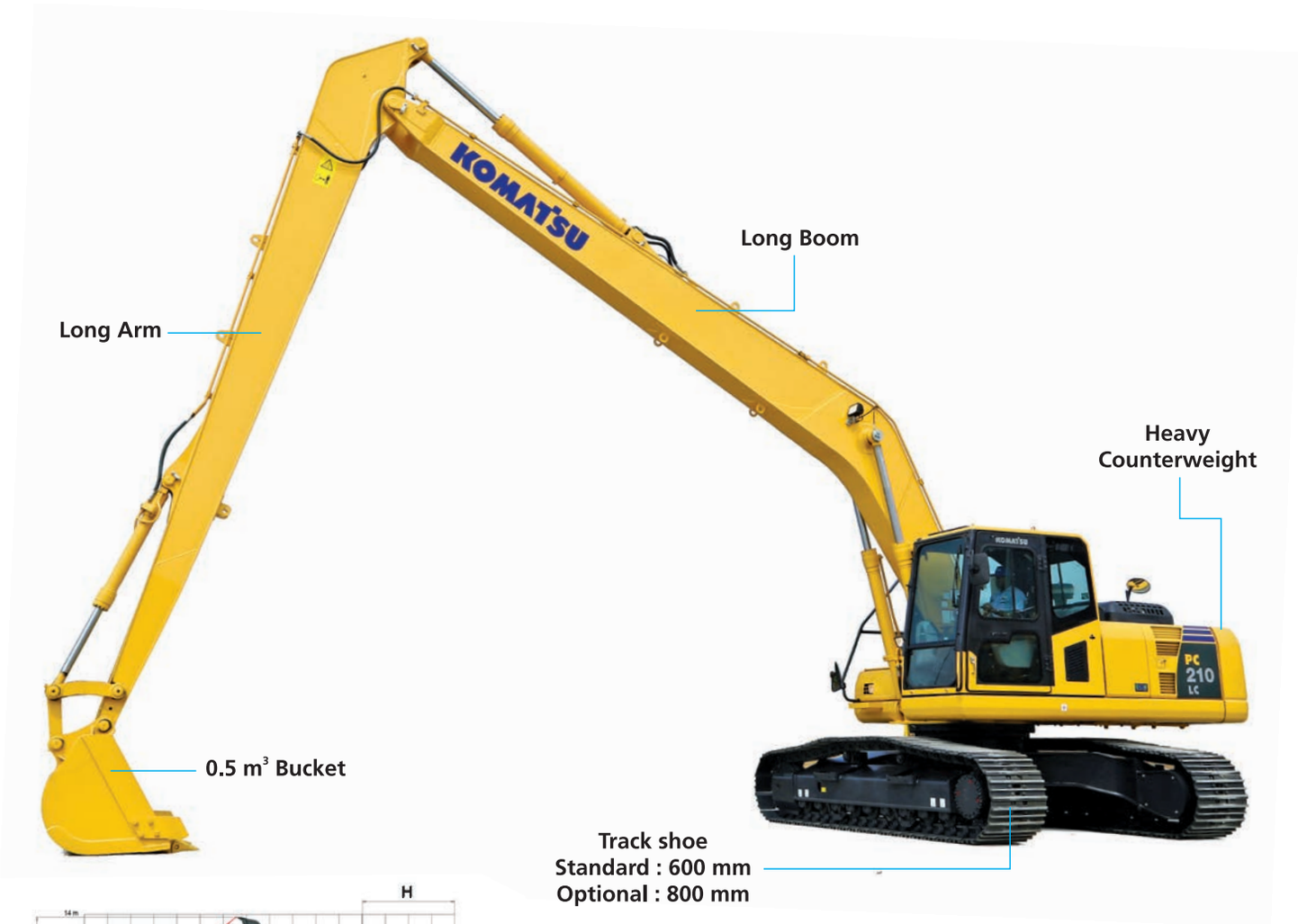
When the Lifting mode is selected, lifting capacity is increased 7% by raising hydraulic pressure.

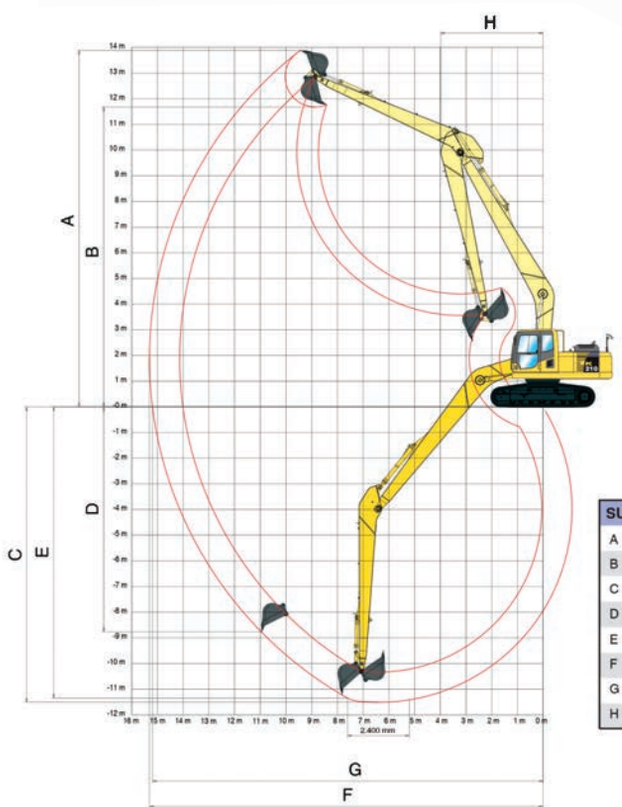
ECO-gauge assists Energy-saving operations

Equipped with the ECO-gauge that can be recognized at a glance on the right of the multi-function color monitor for environment-friendly energy-saving operations. Allows focus on operation in the green range with reduced CO_2 emissions and efficient fuel consumption.

PC210LC-8M0 Super Long Front - Specifications

PC210LC-8M0 Super Long Front (SLF) is specially designed to work in dredging applications. Maximum horizontal reach 15,240mm, operating weight : 23,350kg and work equipment configuration 8.3 meter long boom, 6,4 meter long arm and 0.5 m^3 bucket



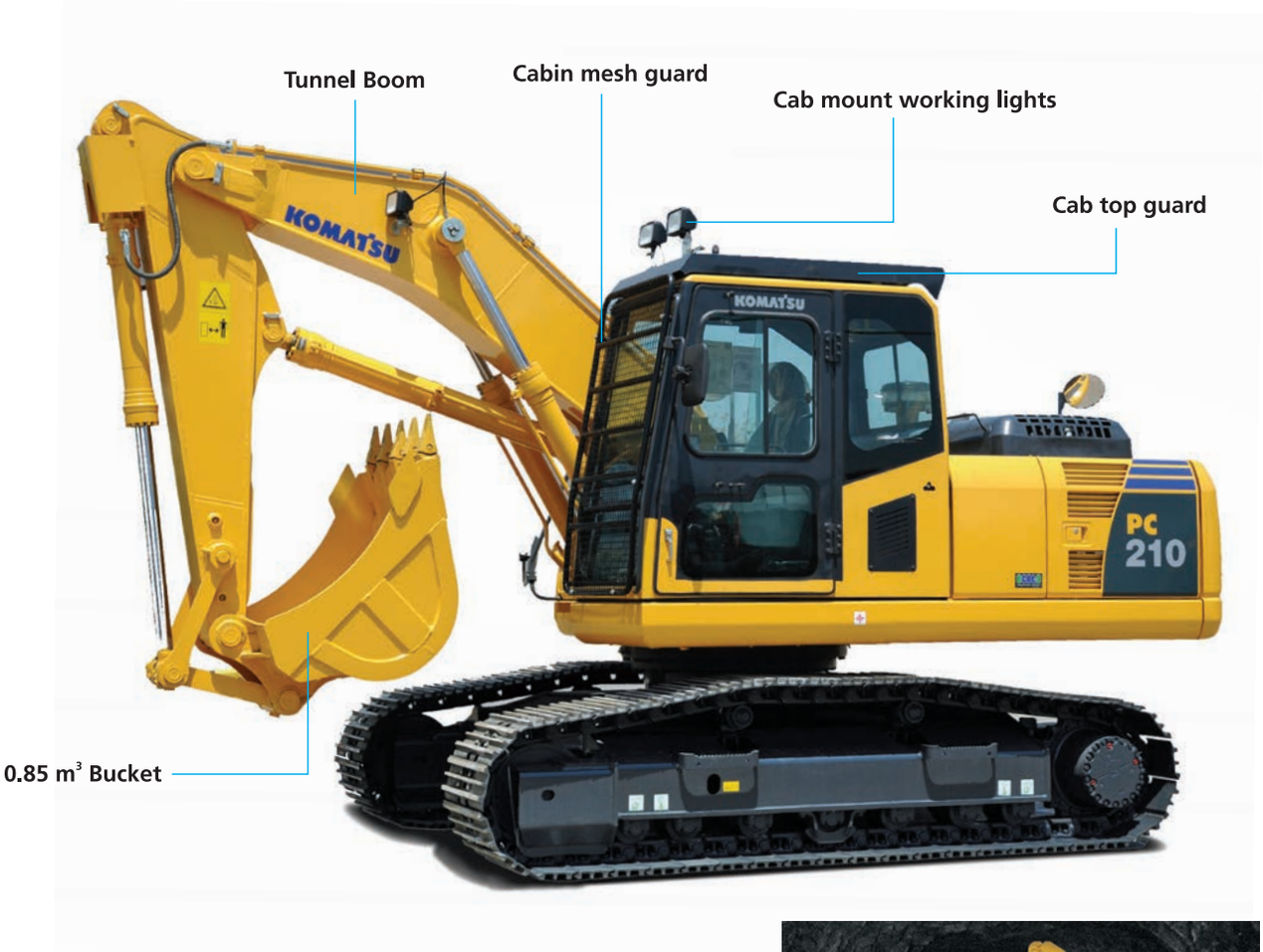


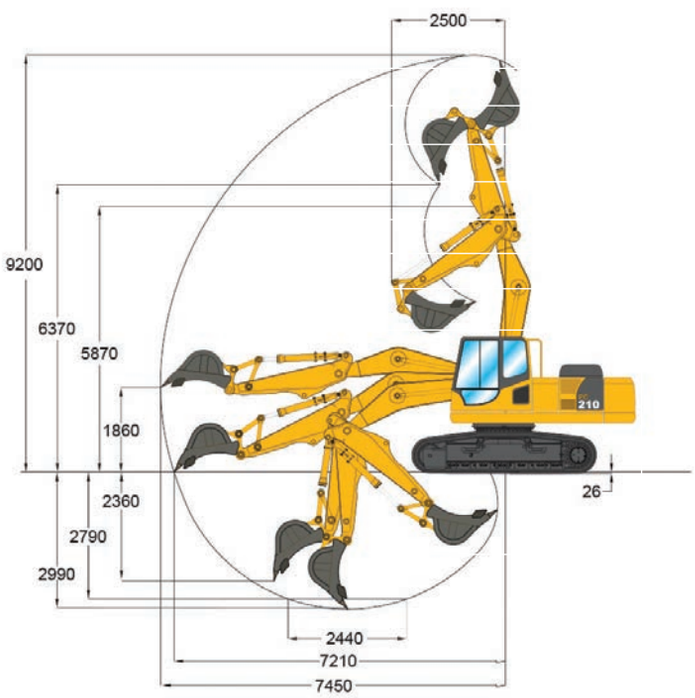
SUPER LONG FRONT		PC210LC-8M0
A	Max. digging height	13810 mm
B	Max. dumping height	11480 mm
C	Max. digging depth	11530 mm
D	Max. vertical wall digging depth	9510 mm
E	Max. digging depth of cut for 2,44m level	11300 mm
F	Max. digging reach	15240 mm
G	Max. digging reach at ground level	15120 mm
H	Min. swing radius	3980 mm

SPECIAL VARIANTS

PC210-8M0 Tunnel - Specifications

PC210LC-8M0 Tunnel spec is specially designed to work in minimum 6 meter tunnel diameter.
Operating weight :18900 kg and work equipment configuration 3.4 meter short boom,
2.4 meter arm and 0.85 m^3 bucket





Boom: 3.4m	Arm: 2.4m	Bucket: 0.85 m^3
A	Overall length	6,695 mm
B	Length on ground (transport)	4,895 mm
C	Overall height (to top of boom)	3,015 mm
D	Overall width	2,800 mm
E	Overall heigth (to top of cab)	3,035 mm
F	Ground clearance, counter weight	1,085 mm
G	Ground clearance (minimum)	440 mm
H	Tail swing radius	2,725 mm
I	Track length on ground	3,275 mm
J	Track length	4,070 mm
K	Track gauge	2,200 mm
L	Width of crawler	2,800 mm
M	Shoe width	600 mm
N	Grouser height	26 mm
O	Machine cab height	2,095 mm
P	machine cab width	2,710 mm
Q	Distance, swing center to rear end	2,685 mm

Komatsu Genuine Attachment Tool

Komatsu recommends a wide range of attachment tools for Hydraulic Excavators provided to suit customer's specific applications.

Hydraulic Breaker

Hydraulic Breaker is an attachment tool used for crushing rock beds, paved surfaces and demolishing concrete structures, etc. The large gas chamber, ideal gas pressure ratio and long-stroke piston deliver a powerful impact force. Since the breaker unit does not require an accumulator, the number of parts has been reduced, resulting in lower maintenance costs.

Komatsu Breakers deliver high impact force with every blow thus, an ideal choice for primary and second breaking.

Model type		JTHB210-3
Working weight	kg	1780
Oil flow	l/min	160~200
Operating pressure	Mpa	14~18
Impact rate	bpm	450~630
Chisel diameter	mm	ø135

- Accumulator FREE design
- High Impact Energy
- High Reliability & Durability
- Low Operating Cost

SPECIFICATIONS

ENGINE

Model . . . . . Komatsu SAA6D107E-1
Type . . . . . Water-cooled, 4-cycle, direct injection
Aspiration. . . . . Turbocharged, aftercooled
Number of cylinders 6
Bore. . . . . 107 mm
Stroke . . . . . 124 mm
Piston displacement . . . . . 6.69 L

Horsepower:

SAE J1995. . . . . Gross 110 kW **147 HP**
ISO 9249 / SAE J1349. . . . . Net 103 kW **138 HP**
Rated rpm . . . . . 2000 min^{-1}
Fan drive method for radiator cooling . . . . . Mechanical
Governor . . . . . All-speed control, electronic

EPA Tier 3 and EU Stage 3A emissions equivalent.

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 6

Main pump:
Type . . . . . Variable displacement piston type
Pumps for. . . .Boom, arm, bucket, swing and travel circuits
Maximum flow . . . . . 439 L/min
Supply for control circuit . . . . . Self-reducing valve

Hydraulic motors:
Travel . . . . . .2 x axial piston motor with parking brake
Swing . . . 1 x axial piston motor with swing holding brake

Relief valve setting:
Implement circuits . . . . . 37.3 MPa 380 kg/cm^2
Travel circuit . . . . . 37.3 MPa 380 kg/cm^2
Swing circuit . . . . . 28.9 MPa 295 kg/cm^2
Pilot circuit . . . . . 3.2 MPa 33 kg/cm^2

Hydraulic cylinders:
(Number of cylinders – bore x stroke x rod diameter)
Boom . . . . . 2 –120 mm x 1334 mm x 85 mm
Arm . . . . . 1 –135 mm x 1490 mm x 95 mm
Bucket for 2.93 m arm. . . . 1 –115 mm x 1120 mm x 80 mm
for 2.41 m arm. . . .1 –115 mm x 1120 mm x 80 mm

DRIVES AND BRAKES

Steering control . . . . . Two levers with pedals
Drive method. . . . . Hydrostatic
Maximum drawbar pull . . . . . 178 kN 18200 kg
Gradeability . . . . . 70%, 35°
Maximum travel speed: High . . . . . 5.5 km/h
(Auto-Shift) Mid . . . . . 4.1 km/h
(Auto-Shift) Low . . . . . 3.0 km/h
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 min^{-1}

UNDERCARRIAGE

Center frame . . . . . X-frame
Track frame . . . . . Box-section
Seal of track . . . . . Sealed track
Track adjuster . . . . . Hydraulic
Number of shoes (each side):
PC210-8M0 45
PC210LC-8M0 49
Number of carrier rollers . . . . . 2 each side
Number of track rollers (each side):
PC210-8M0 7
PC210LC-8M0 9

COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank . . . . . 400 L
Coolant . . . . . 20.4 L
Engine . . . . . 23.1 L
Final drive, each side . . . . . 3.6 L
Swing drive. . . . . 6.5 L
Hydraulic tank . . . . . 135 L

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5.7m mono boom, 2.4m arm, 1.10m^3 bucket, operator, lubricant, coolant, full fuel tank and standard equipment.

Mono Boom PC210LC-8M0		
Triple grouser Shoes	**Operating Weight**	**Ground Pressure**
600 mm	21,600 kg	0.47 kg/cm^2

Operating weight, including 5.7m, mono boom, 2.4 arm, 1.00 m^3 bucket, operator, lubricant, coolant, full fuel tank and standard equipment.

Mono Boom PC210-8M0		
Triple grouser Shoes	**Operating Weight**	**Ground Pressure**
600 mm	20,700 kg	0.50 kg/cm^2