KOMATSU

HB215LC-3

EU Stage IV Engine

Hybrid

HYDRAULIC EXCAVATOR

HB215

ENGINE POWER
110 kW / 148 HP @ 2.000 rpm

OPERATING WEIGHT
23.000 - 23.870 kg

BUCKET CAPACITY
max. 1,68 m³

OUTSTANDING PRODUCTIVITY AND FUEL ECONOMY

Powerful and Environmentally Friendly

- NEW • EU Stage IV engine
- NEW • Engine fan clutch
- Adjustable idle shutdown
- Komatsu fuel-saving technology

Improved Komatsu Hybrid System

- NEW • Increased productivity
- Proven technology
- Reliable and durable hybrid system components
- Electric swing to capture and regenerate energy
- Massive reduction in fuel consumption & emissions
- Maintenance free Hybrid components with a 5 years /10.000 hrs warranty

Fuel consumption

Reduced by **20%**

(vs. PC210LC-11)

Based on typical work pattern collected via KOMTRAX

Images may display optional equipment or specifications not available in your area.

First-Class Comfort

- NEW • Komatsu integrated attachment control (Standard on 2 attachment lines)
- Fully air-suspended operator station
- Widescreen monitor
- Low vibration levels
- Improved operator comfort
- Armrest with simple height adjustment

Safety First

- NEW • KomVision surround view system as standard
- NEW • Neutral position detection system
- Komatsu SpaceCab™
- Safe access, easy maintenance
- Falling Object Protection System (FOPS) optional

Quality You Can Rely On

- Komatsu-quality components
- Extensive dealer support network
- Reliable and efficient
- Rugged design

KOMTRAX

- Komatsu Wireless Monitoring System
- 3G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings

KOMATSU CARE™

A maintenance program for Komatsu customers

① Generator-motor
② Electric swing motor-generator
③ Inverter and capacitor

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 ultra capacitor and can be used to swing, or by the generator-motor to help the engine accelerate. Thus, the hybrid system significantly reduces fuel consumption.

Fully integrated tool control. Up to 15 tool presets for oil flow and pressure.

Improved monitoring system with KomVision surround view system as standard.

ENGINE

Model	Komatsu SAA4D107E-3
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2.000 rpm
ISO 14396	110 kW/148 HP
ISO 9249 (net engine power)	110 kW/148 HP
No. of cylinders	4
Bore × stroke	107 × 124 mm
Displacement	4,46 l

HYDRAULIC SYSTEM

Type	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Main pump	2 variable displacement piston pumps supplying boom, arm, bucket and travel circuits
Maximum pump flow	452 l/min
Relief valve settings	
Implement	380 kg/cm²
Travel	380 kg/cm²
Pilot circuit	33 kg/cm²

SWING SYSTEM

Type	Electric drive
Swing reduction	Planetary gear
Swing brake	Electric brake
Swing speed	0 - 12,4 rpm
Swing torque	69 kNm

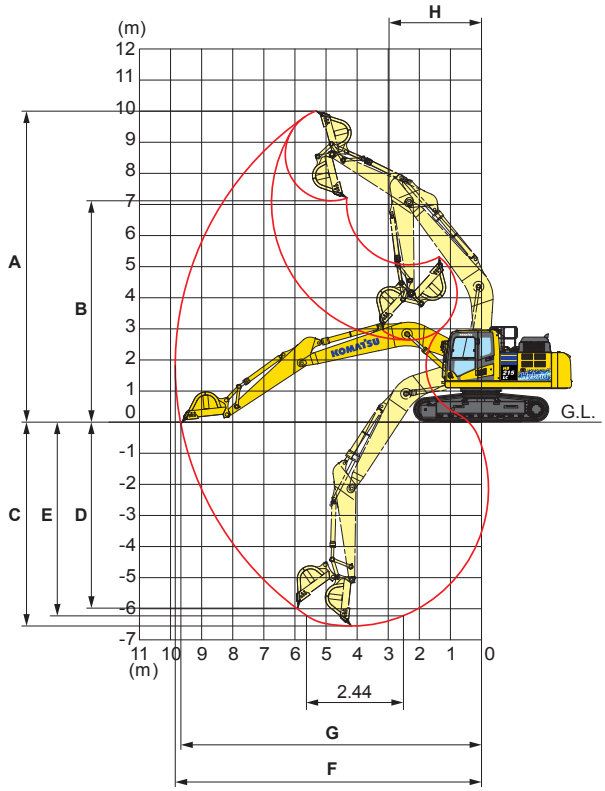
UNDERCARRIAGE

Construction	X-frame centre section with box section track frames
Track assembly	
Type	Fully sealed
Shoes (each side)	49
Tension	Combined spring and hydraulic unit
Rollers	
Track rollers (each side)	9
Carrier rollers (each side)	2

OPERATING WEIGHT (APPR.)

Triple grouser shoes	Operating weight	Ground pressure
600 mm	23.000 kg	0,48 kg/cm²
700 mm	23.280 kg	0,42 kg/cm²
800 mm	23.600 kg	0,37 kg/cm²
900 mm	23.870 kg	0,33 kg/cm²

WORKING RANGE



ARM LENGTH		2,4 m	2,9 m
A	Max. digging height	9.800 mm	10.000 mm
B	Max. dumping height	6.890 mm	7.110 mm
C	Max. digging depth	6.095 mm	6.620 mm
D	Max. vertical wall digging depth	5.430 mm	5.980 mm
E	Max. digging depth of cut for 2,44 m level	5.780 mm	6.370 mm
F	Max. digging reach	9.380 mm	9.875 mm
G	Max. digging reach at ground level	9.190 mm	9.700 mm
H	Min. swing radius	3.090 mm	3.040 mm

LIFTING CAPACITIES (with 2,9 m arm, 700 mm shoes)

REACH		MAX		7,6 m		6,4 m		4,6 m	
HEIGHT		FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE
7,6 m	kg	*4.150	*4.150						
6,1 m	kg	*3.850	*3.850			*6.600	5.900		
4,6 m	kg	*3.850	*3.850	*5.250	4.150	*7.250	5.800	*8.100	*8.100
3,0 m	kg	*3.950	3.600	6.000	4.100	*8.350	5.600	*10.450	8.350
1,5 m	kg	*4.250	3.500	5.900	4.000	8.150	5.350	*12.700	7.900
0,0 m	kg	*4.750	3.600	5.850	3.900	8.000	5.200	12.500	7.650
- 1,5 m	kg	*5.700	3.850	5.800	3.900	7.900	5.150	12.400	7.600
- 3,0 m	kg	6.900	4.550			7.950	5.150	12.450	7.650
- 4,6 m	kg	*9.000	6.450					*10.800	7.800

* 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. When lifting with additional equipment installed to the arm, please subtract the weight of all additional equipment from the values stated.

ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	100 dB(A) (2000/14/EC Stage II)
LpA operator ear	68 dB(A) (ISO 6396 dynamic test)

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