

KOMATSU®

PC220-8M0 PC220LC-8M0

PC220-8M0 PC220LC-8M0

HORSEPOWER

Gross: 129 kW 173 hp @ 2,000 rpm

Net: 123 kW 164 hp @ 2,000 rpm

OPERATING WEIGHT

PC220-8M0: 23,200 – 23,700 kg

PC220LC-8M0: 24,300 – 24,900 kg



ORIGIN JAPAN / KLTD

Photos may include optional equipment.

WALK-AROUND

**NET
ENGINE
POWER
164 hp**



*Photo may include optional equipment.

ECOLOGY AND ECONOMY FEATURES

»Low fuel consumption by total control of the engine, hydraulic and electronic system.

»Reduces fuel consumption by approx. 5%. (Compared with the PC220-8).

»Low emission engine

»A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D107E-1 provides 123 kW 164 hp.

- EPA Tier 3 and EU Stage 3A emissions equivalent.
- Economy mode improves fuel consumption.
- ECO-gauge for energy-saving operations.
- Extended idling caution for fuel conservation.

»Low operation noise

»Using the low-noise engine and methods to cut noise at source.

See pages 4 and 5.

SAFETY DESIGN

- ROPS cab (ISO 12117-2) for protecting the operator in the event of a roll-over accident.
- Slip-resistant plates for improved foot grid.
- Rear view monitoring system for viewing the work area to the rear of the machine (Optional).

See page 7.

LARGE COMFORTABLE CAB

- Low-noise cab, similar to passenger car.
- Low vibration with cab damper mounting.
- Highly pressurized cab with optional air conditioner.
- Operator seat and console with armrest that enables operations in the appropriate operational posture.

See page 6.

INFORMATION & COMMUNICATION TECHNOLOGY

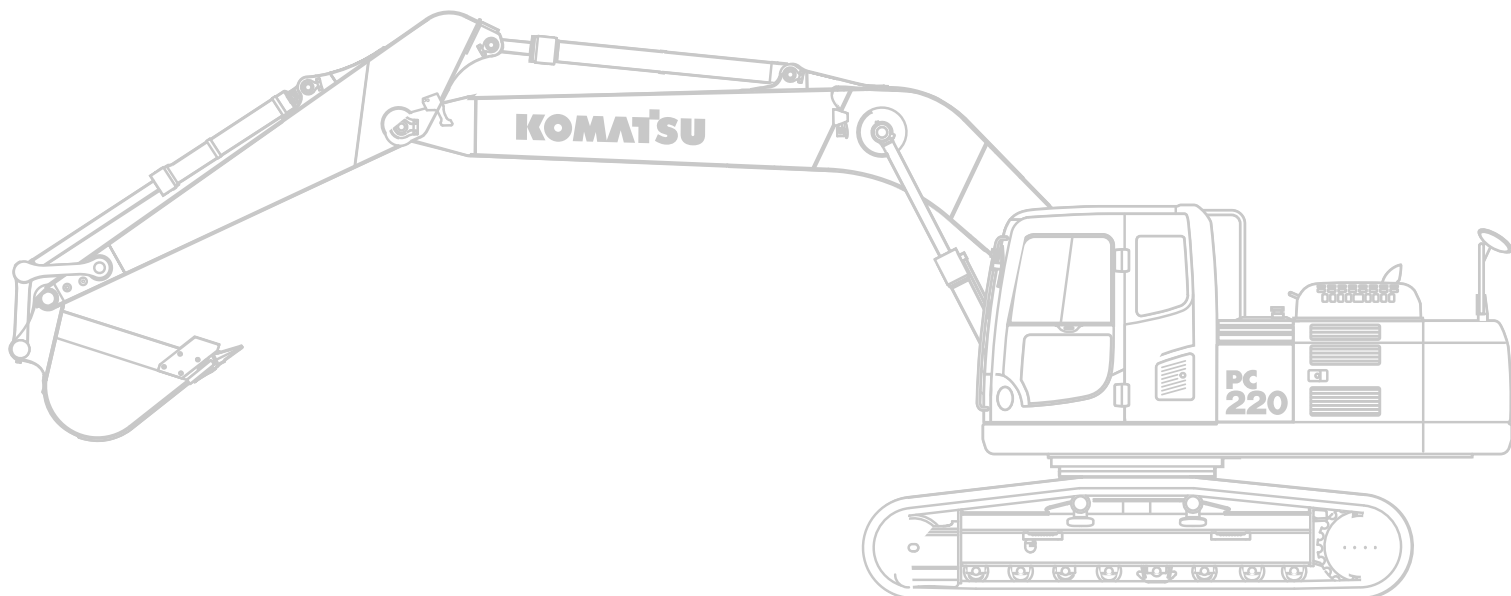
- Large multi-lingual high resolution LCD monitor.
- Supports efficiency improvement.
- Equipped with the EMMS monitoring system.

See page 8.

EASY MAINTENANCE

- Long replacement interval of engine oil, engine oil filter, and hydraulic filter.
- Remote mounted engine oil filter and fuel drain valve for easy access.
- Equipped with the fuel pre-filter as standard (With water separator).
- Side-by-side cooling concept enables individual cooling modules to be serviced.

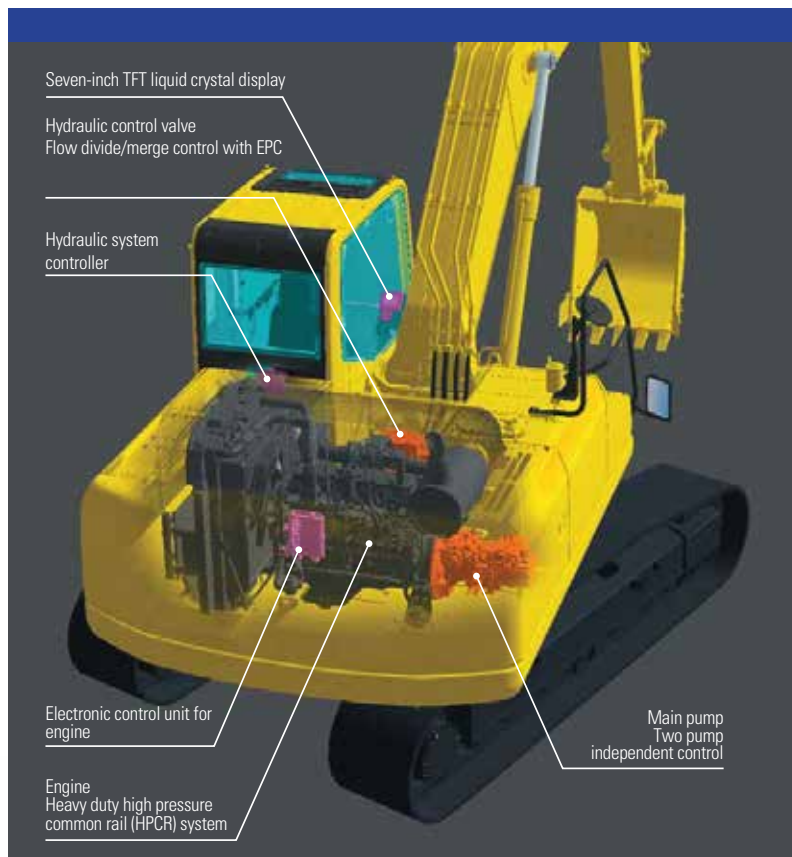
See page 9.



ECOLOGY & ECONOMY FEATURES

»Komatsu technology

- »Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house.
- »With this "Komatsu Technology," and adding customer feedback, Komatsu is achieving great advancements in technology.
- »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-staged 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.

**5% reduced
fuel consumption**

vs. PC220-8

Based on typical work pattern collected via KOMTRAX. Fuel consumption varies depending on job conditions.



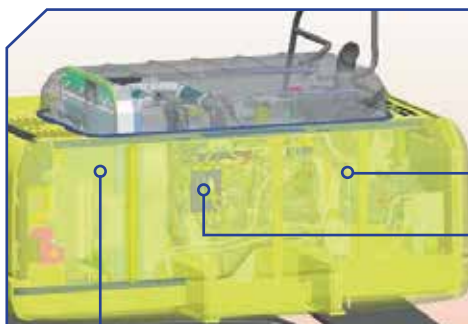
»Low emission engine

»Komatsu SAA6D107E-1 reduced NOx emission by 29% compared with the PC220-7. This engine 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.



Low-noise muffler.
Optimal arrangement of sound absorbing materials.

Electronically controlled common rail type engine.
• Multi-staged injection.
• Highly rigid cylinder block.

Reduced fan speed.
• Large capacity radiator.
• V shape type fin.
• Low-noise shroud.

»Idling caution

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



»ECO-gauge that 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 CO₂ emissions and efficient fuel consumption.

»Working modes selectable

»The PC220-8MO 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.
L	Lifting mode	• Suitable attachment speed.
B	Breaker mode	• Optimum engine rpm, hydraulic flow.
ATT/P	Attachment power mode	• Optimum engine rpm, hydraulic flow, 2way. • Power mode.
ATT/E	Attachment economy mode	• Optimum engine rpm, hydraulic flow, 2way. • Economy mode.



»Lifting mode

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



ECO gauge

WORKING ENVIRONMENT

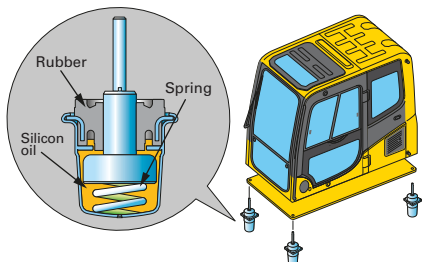


»Low cab noise

»The newly-designed cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows this machine to generate a low level of noise.

»Low vibration with cab damper mounting

»PC220-8M0 uses viscous damper mounting for cab that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with high rigidity deck aids vibration reduction at operator seat.



»Wide newly-designed cab

»Newly-designed wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational posture of armrest together with the console.

»Reclining the seat further enables you to place it into the fully flat state with the headrest attached.

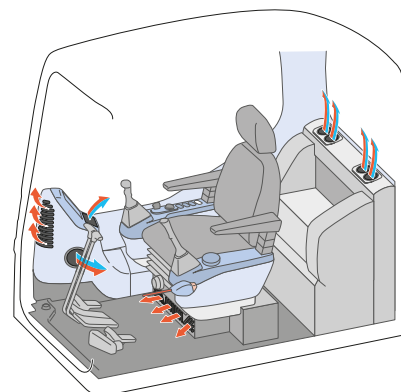


»Pressurized cab

»Optional air conditioner, air filter and a higher internal air pressure minimize external dust from entering the cab.

»Automatic air conditioner (Optional)

»Enables you to easily and precisely set cab atmosphere with the instruments on the large LCD. The bi-level control function keeps the operator's head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps front glass clear.



| SAFETY DESIGN

»ROPS cab

»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.



»Slip-resistant plates

»Highly durable slip-resistant plates maintain superior traction performance for the long term.

»Pump/engine room partition

»Pump/engine room partition prevents oil from spraying onto the engine, if a hydraulic hose should burst.

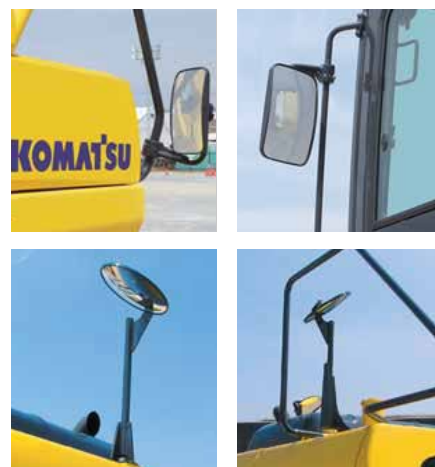
»Lock lever

»Locks the hydraulic pressure to prevent unintentional movement. Neutral start function allows machine to be started only in lock position.



»Large side-view, rear, and sidewise mirrors

»Enlarged left-side mirror and addition of rear and side mirror allow the PC220-8M0 to meet the new ISO visibility requirements.



»Rear view monitoring system (Optional)

»The operator can view the rear of the machine with a color monitor screen.



Rear view image on monitor



»Thermal and fan guards

»Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.



INFORMATION & COMMUNICATION TECHNOLOGY

TFT: Thin film transistor.
LCD: Liquid crystal display.



»Large multi-lingual high resolution 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.

TFT: Thin film transistor.
LCD: Liquid crystal display.

Indicators

- 1 Auto-decelerator.
- 2 Working mode.
- 3 Travel speed.
- 4 Engine water temperature gauge.
- 5 Hydraulic oil temperature gauge.
- 6 Fuel gauge.
- 7 ECO gauge.
- 8 Fuel consumption gauge.
- 9 Function switches menu.

Basic operation switches

- 1 Auto-decelerator.
- 2 Working mode selector.
- 3 Traveling selector.
- 4 Buzzer cancel.
- 5 Wiper.
- 6 Window washer.

»Equipment management monitoring system (EMMS)



»Monitor function

»Controller monitors engine oil level, coolant temperature, battery charge air clogging, etc. If the controller finds any abnormality, it is displayed on the LCD.

»Maintenance function

»The monitor informs replacement time of oil and filters on the LCD when the replacement interval is reached.

»Trouble data memory function

»Monitor stores abnormalities for effective troubleshooting.

»Supports efficiency improvement

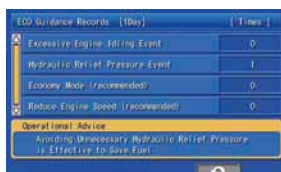
»The main screen displays advices for promoting energy-saving operations as needed. The operator can use the ECO guidance menu to check the operation records, ECO guidance records, average fuel consumption logs, etc.



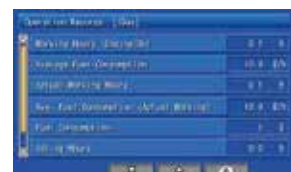
ECO guidance



ECO guidance menu



ECO guidance records



Operation records



Average fuel consumption logs

MAINTENANCE FEATURES

»Side-by-side cooling

»Since radiator, aftercooler and oil cooler are arranged in parallel, it is easy to clean, remove and install them. Radiator, aftercooler, and oil cooler made of aluminum have high cooling efficiency and are easily recycled.



»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).



»Washable cab floormat

»The PC220-8MO's cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

»Easy access to engine oil filter and fuel drain valve

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



»Equipped with the ECO-drain valve as standard

»Prevents clothes and the ground from becoming contaminated due to oil leakage when replacing the engine oil.



»Large-capacity fuel tank and rustproof treatment

»400-liter high-capacity fuel tank. Effective corrosion resistance using rustproof treatment.

»Sloping track frame

»Prevents dirt and sand from accumulating and allows easy mud removal.

»Gas assisted engine hood damper cylinders

»The engine hood can be easily opened and closed with the assistance of the gas assisted engine hood damper cylinders.



»Long-life oil, filter

»Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

Engine oil & engine oil filter	every 500 hours
Hydraulic oil	every 5,000 hours
Hydraulic oil filter	every 1,000 hours

»Air conditioner filter (Optional)

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



Internal air conditioner filter



External air conditioner filter

»Long work equipment greasing interval (Optional)

»High quality BMRC bushings and resin shims are optionally available for work equipment pins excluding bucket, extending greasing interval to 500 hours.



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 129 kW 173 hp.
ISO 9249 / SAE J1349	Net 123 kW 164 hp.
RATED RPM	2,000 rpm.
FAN DRIVE METHOD FOR RADIATOR	Mechanical.
COOLING	
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 - 130 mm x 1,335 mm x 90 mm.
ARM	1 - 145 mm x 1,635 mm x 100 mm.
BUCKET FOR 2.5 M AND 3.05 M ARM	1 - 130 mm x 1,020 mm x 90 mm.
FOR 2.0 M ARM	1 - 140 mm x 1,009 mm x 100 mm.



DRIVES AND BRAKES

STEERING CONTROL	Two levers with pedals.
DRIVE METHOD	Hydrostatic.
MAXIMUM DRAWBAR PULL	202 kN 20,570 kg.
GRADEABILITY	70%, 35°.
MAXIMUM TRAVEL SPEED: HIGH	5.5 km/h.
(AUTO-SHIFT) MID	4.2 km/h.
(AUTO-SHIFT) LOW	3.1 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	11.7 rpm.



UNDERCARRIAGE

CENTER FRAME	X-frame.
TRACK FRAME	Box-section.
SEAL OF TRACK	Sealed track.
TRACK ADJUSTER	Hydraulic.
NUMBER OF SHOES (EACH SIDE):	
PC220-8M0	47.
PC220LC-8M0	51.
NUMBER OF CARRIER ROLLERS	2 each side.
NUMBER OF TRACK ROLLERS (EACH SIDE):	
PC220-8M0	8.
PC220LC-8M0	10.



COOLANT AND LUBRICANT CAPACITY (REFILLING)

FUEL TANK	400 L.
COOLANT	19.9 L.
ENGINE	23.1 L.
FINAL DRIVE, EACH SIDE	5.0 L.
SWING DRIVE	7.2 L.
HYDRAULIC TANK	135 L.



OPERATING WEIGHT (APPROXIMATE)

Operating weight including 5,850 mm one-piece boom; 3,045 mm arm; SAE heaped 1.0 m³ backhoe bucket; rated capacity of lubricants; coolant; full fuel tank; operator; and standard equipment.

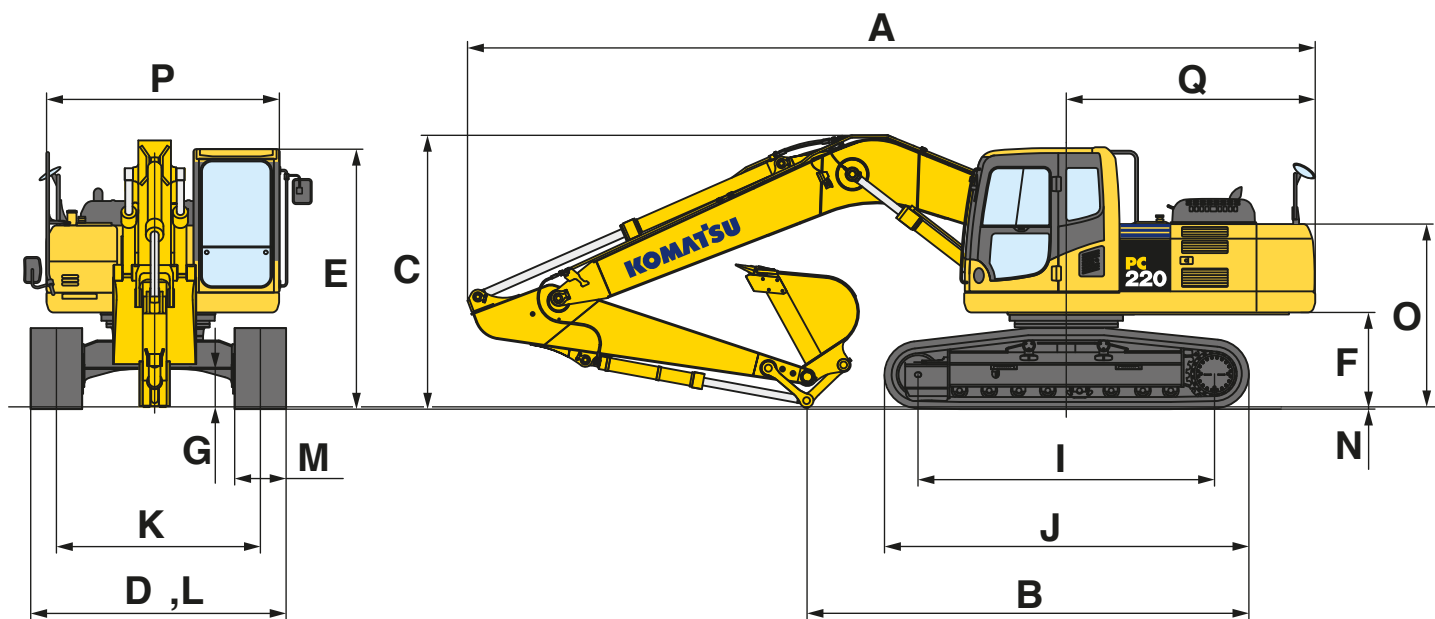
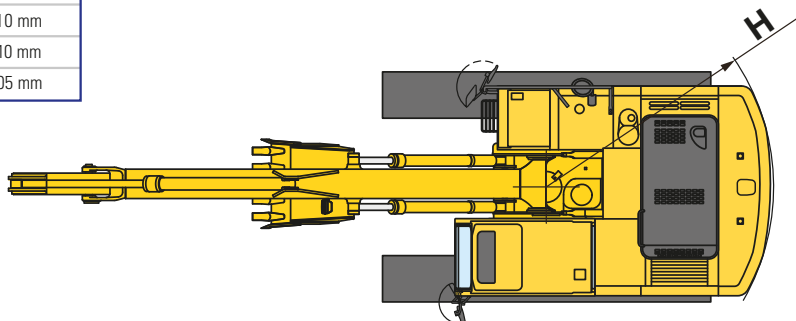
	PC220-8M0		PC220LC-8M0	
Shoes	Operating weight	Ground pressure	Operating weight	Ground pressure
600 mm	23,200 kg	51.0 kPa 0.52 kg/cm ²	24,300 kg	48.0 kPa 0.49 kg/cm ²
700 mm	23,400 kg	44.1 kPa 0.45 kg/cm ²	24,600 kg	42.1 kPa 0.43 kg/cm ²
800 mm	23,700 kg	39.2 kPa 0.40 kg/cm ²	24,900 kg	37.2 kPa 0.38 kg/cm ²



DIMENSIONS

Arm length		2,000 mm	2,500 mm	3,045 mm
A	Overall length	9,865 mm	9,960 mm	9,885 mm
B	Length on ground (Transport): PC220-8M0 PC220LC-8M0	6,470 mm 6,660 mm	5,920 mm 6,115 mm	5,190 mm 5,390 mm
C	Overall height (To top of boom)	3,220 mm	3,295 mm	3,185 mm

	PC220-8M0	PC220LC-8M0
D	Overall width	2,980 mm
E	Overall height (To top of cab)	3,055 mm
F	Ground clearance, counterweight	1,100 mm
G	Ground clearance (Minimum)	440 mm
H	Tail swing radius	2,940 mm
I	Track length on ground	3,460 mm
J	Track length	4,260 mm
K	Track gauge	2,380 mm
L	Width of crawler	2,980 mm
M	Shoe width	600 mm
N	Grouser height	26 mm
O	Machine cab height	2,100 mm
P	Machine cab width	2,710 mm
Q	Distance, swing center to rear end	2,905 mm





BACKHOE BUCKET, ARM, AND BOOM COMBINATION

Bucket capacity (Heaped)		Width		Weight	Number of teeth	Arm length		
SAE, PCSA	CECE	Without side cutters	With side cutters	With side cutters		2.00 m	2.50 m	3.05 m
0.72 m ³	0.65 m ³	900 mm	1,005 mm	658 kg	3	○	○	○
1.00 m ³	0.90 m ³	1,155 mm	1,260 mm	734 kg	4	○	○	○
1.14 m ³	1.00 m ³	1,300 mm	1,405 mm	793 kg	5	○	□	□
1.26 m ³	1.10 m ³	1,400 mm	1,505 mm	845 kg	5	○	□	●

○ : General purpose use, density up to 1.8 t/m³.

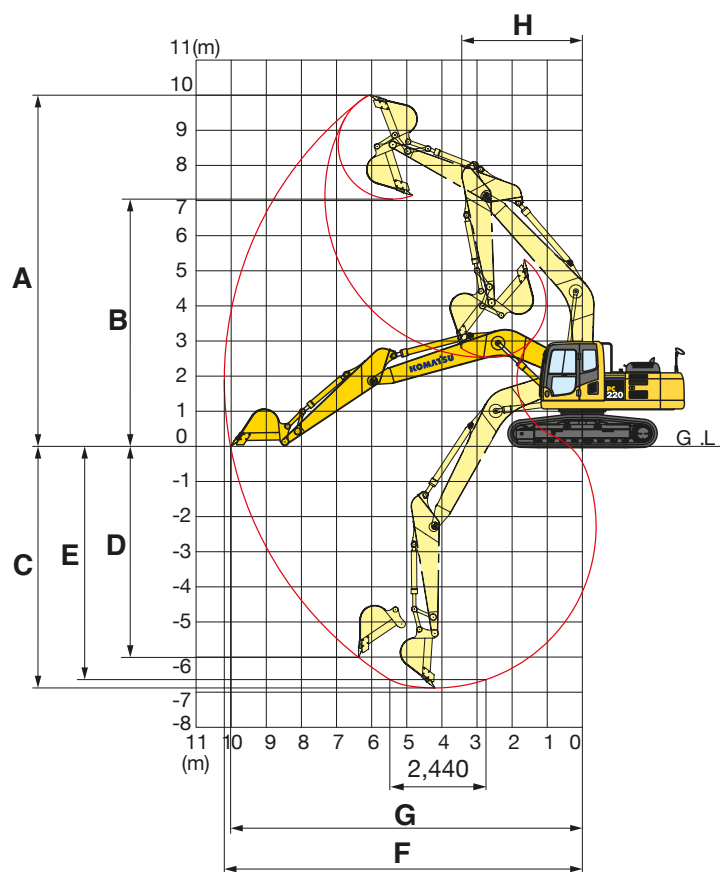
□ : General purpose use, density up to 1.5 t/m³.

● : Light duty work, density up to 1.2 t/m³.



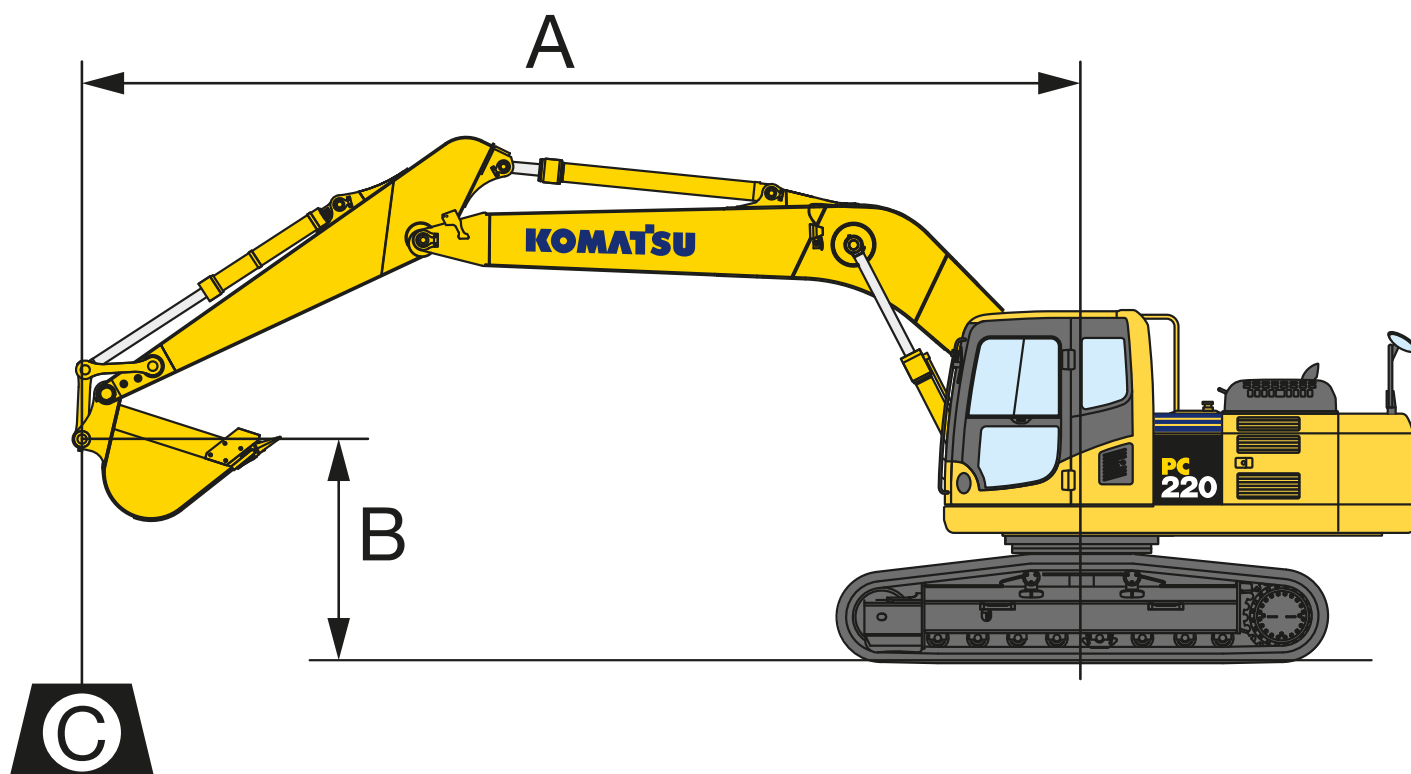
WORKING RANGE

	Arm	2,000 mm	2,500 mm	3,045 mm
A	Max. digging height	9,665 mm	9,790 mm	10,000 mm
B	Max. dumping height	6,715 mm	6,860 mm	7,035 mm
C	Max. digging depth	5,825 mm	6,320 mm	6,920 mm
D	Max. vertical wall digging depth	4,750 mm	5,130 mm	6,010 mm
E	Max. digging depth of cut for 8° level	5,585 mm	6,100 mm	6,700 mm
F	Max. digging reach	9,270 mm	9,670 mm	10,180 mm
G	Max. digging reach at ground level	9,070 mm	9,480 mm	10,020 mm
H	Min. swing radius	3,300 mm	3,320 mm	3,450 mm
SAE rating	Bucket digging force at power max.	176 kN 17,900 kg	152 kN 15,500 kg	152 kN 15,500 kg
	Arm crowd force at power max.	155 kN 15,800 kg	142 kN 14,500 kg	119 kN 12,100 kg
ISO rating	Bucket digging force at power max.	197 kN 20,100 kg	172 kN 17,500 kg	172 kN 17,500 kg
	Arm crowd force at power max.	161 kN 16,400 kg	148 kN 15,100 kg	129 kN 13,200 kg





LIFTING CAPACITY WITH LIFTING MODE



A: Reach from swing center.

B: Bucket hook height.

C: Lifting capacity.

Cf: Rating over front.

Cs: Rating over side.

⊗ : Rating at maximum reach.

Conditions:

- 5,850 mm one-piece boom.
- 1.0 m³ SAE heaped bucket.
- Shoe width: - PC220-8M0 600 mm triple grouser.



LIFTING CAPACITY WITH LIFTING MODE

PC220-8M0 Arm: 2,000 mm Bucket: 1.0 m³ SAE heaped Shoe: 600 mm triple grouser												
A B	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*5,400 kg	*5,400 kg										
6.0 m	*5,150 kg	4,200 kg			*5,750 kg	5,300 kg						
4.5 m	5,000 kg	3,400 kg	5,000 kg	3,400 kg	*6,500 kg	5,050 kg	*7,950 kg	*7,950 kg	*11,200 kg	*11,200 kg		
3.0 m	4,500 kg	3,050 kg	4,900 kg	3,300 kg	7,100 kg	4,800 kg	*10,950 kg	7,500 kg				
1.5 m	4,350 kg	2,900 kg	4,750 kg	3,150 kg	6,800 kg	4,500 kg	10,850 kg	6,950 kg				
0 m	4,500 kg	2,950 kg	4,650 kg	3,050 kg	6,600 kg	4,350 kg	10,600 kg	6,750 kg				
-1.5 m	5,000 kg	3,300 kg			6,550 kg	4,300 kg	10,650 kg	6,750 kg	*8,900 kg	*8,900 kg		
-3.0 m	6,350 kg	4,200 kg			6,700 kg	4,400 kg	10,800 kg	6,900 kg	*16,650 kg	13,950 kg		
-4.5 m	*8,950 kg	6,850 kg					*9,550 kg	7,200 kg				

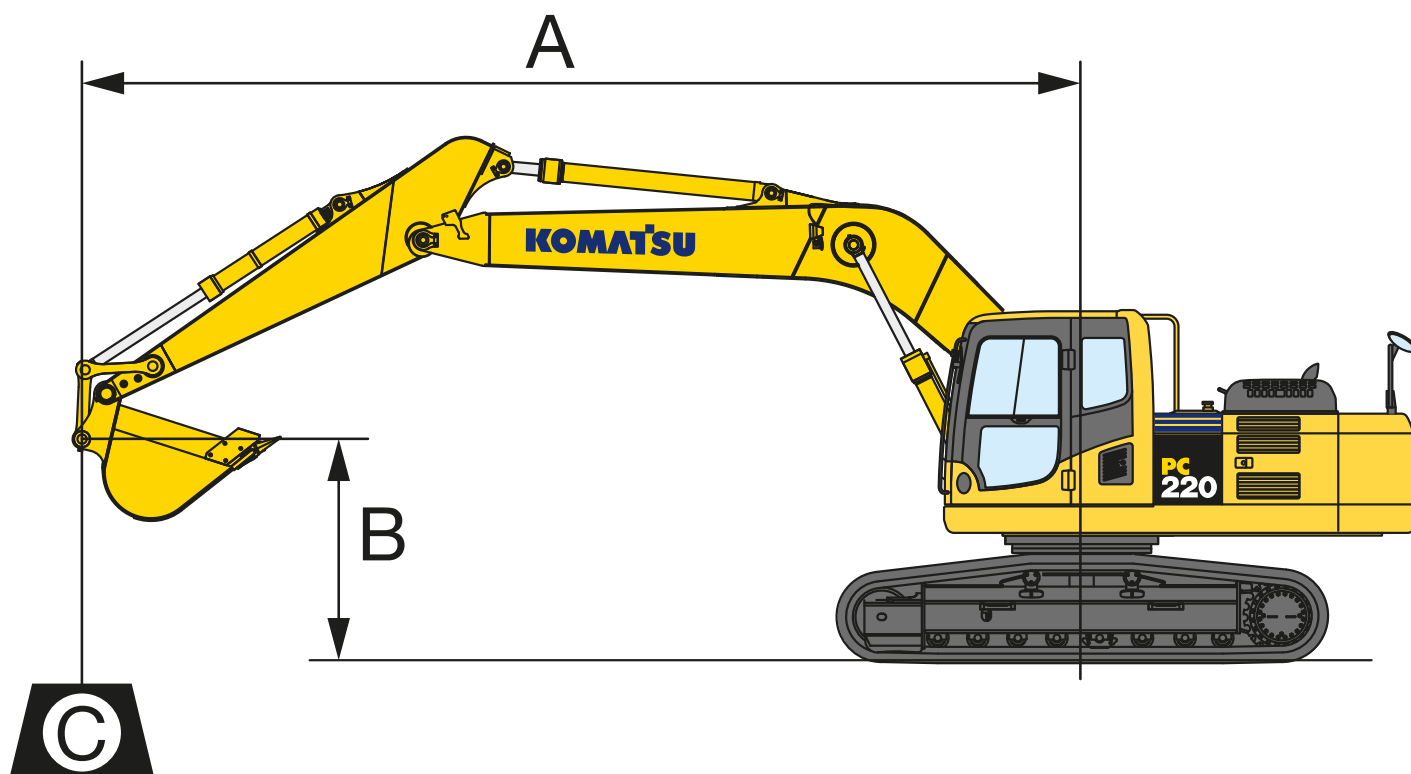
PC220-8M0 Arm: 2,500 mm Bucket: 1.0 m³ SAE heaped Shoe: 600 mm triple grouser												
A B	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*5,300 kg	*5,300 kg			*5,250 kg	*5,250 kg						
6.0 m	*5,100 kg	3,900 kg			*5,200 kg	*5,200 kg						
4.5 m	4,700 kg	3,200 kg	5,150 kg	3,500 kg	*6,000 kg	5,200 kg	*7,100 kg	*7,100 kg				
3.0 m	4,250 kg	2,850 kg	5,000 kg	3,350 kg	7,200 kg	4,900 kg	*9,900 kg	7,750 kg				
1.5 m	4,100 kg	2,750 kg	4,800 kg	3,200 kg	6,900 kg	4,600 kg	11,050 kg	7,100 kg				
0 m	4,200 kg	2,750 kg	4,700 kg	3,100 kg	6,700 kg	4,400 kg	10,700 kg	6,800 kg				
-1.5 m	4,600 kg	3,050 kg	4,650 kg	3,050 kg	6,600 kg	4,300 kg	10,600 kg	6,700 kg	*10,100 kg	*10,100 kg	*8,950 kg	*8,950 kg
-3.0 m	5,650 kg	3,700 kg			6,650 kg	4,350 kg	10,750 kg	6,850 kg	*17,950 kg	13,900 kg	*10,050 kg	*10,050 kg
-4.5 m	8,500 kg	5,600 kg					*10,700 kg	7,100 kg	*15,150 kg	14,150 kg		

PC220-8M0 Arm: 3,045 mm Bucket: 1.0 m³ SAE heaped Shoe: 600 mm triple grouser												
A B	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*3,350 kg	*3,350 kg			*4,350 kg	*4,350 kg						
6.0 m	*3,200 kg	*3,200 kg	*4,700 kg	3,650 kg	*4,450 kg	*4,450 kg						
4.5 m	*3,250 kg	2,750 kg	*5,050 kg	3,550 kg	*5,300 kg	5,300 kg						
3.0 m	*3,400 kg	2,500 kg	5,000 kg	3,350 kg	*6,600 kg	4,950 kg	*8,700 kg	7,900 kg	*11,950 kg	*11,950 kg		
1.5 m	3,600 kg	2,350 kg	4,800 kg	3,200 kg	6,950 kg	4,600 kg	*10,950 kg	7,200 kg	*6,750 kg	*6,750 kg		
0 m	3,650 kg	2,400 kg	4,650 kg	3,050 kg	6,650 kg	4,350 kg	10,650 kg	6,750 kg	*8,250 kg	*8,250 kg		
-1.5 m	4,000 kg	2,600 kg	4,550 kg	3,000 kg	6,500 kg	4,200 kg	10,500 kg	6,600 kg	*9,850 kg	*9,850 kg	*7,650 kg	*7,650 kg
-3.0 m	4,700 kg	3,100 kg	4,600 kg	3,000 kg	6,500 kg	4,200 kg	10,550 kg	6,650 kg	*17,800 kg	13,550 kg	*10,600 kg	*10,600 kg
-4.5 m	6,450 kg	4,250 kg			6,700 kg	4,400 kg	10,800 kg	6,900 kg	*16,550 kg	14,000 kg		

* 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.



LIFTING CAPACITY WITH LIFTING MODE



A: Reach from swing center.

B: Bucket hook height.

C: Lifting capacity.

Cf: Rating over front.

Cs: Rating over side.

⊗ : Rating at maximum reach.

Conditions:

- 5,850 mm one-piece boom.
- 1.0 m³ SAE heaped bucket.
- Shoe width: - PC220-8M0 700 mm triple grouser.



LIFTING CAPACITY WITH LIFTING MODE

PC220LC-8M0 Arm: 2,000 mm Bucket: 1.0 m³ SAE heaped Shoe: 700 mm triple grouser												
A B	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*5,400 kg	*5,400 kg										
6.0 m	*5,150 kg	4,850 kg			*5,750 kg	*5,750 kg						
4.5 m	*5,200 kg	3,950 kg	*6,000 kg	3,950 kg	*6,500 kg	5,850 kg	*7,950 kg	*7,950 kg	*11,200 kg	*11,200 kg		
3.0 m	*5,500 kg	3,550 kg	6,000 kg	3,850 kg	*7,650 kg	5,550 kg	*10,950 kg	8,700 kg				
1.5 m	5,350 kg	3,400 kg	5,850 kg	3,700 kg	8,400 kg	5,300 kg	*12,200 kg	8,150 kg				
0 m	5,500 kg	3,500 kg	5,750 kg	3,600 kg	8,200 kg	5,100 kg	*13,050 kg	7,900 kg				
-1.5 m	6,150 kg	3,900 kg			8,150 kg	5,050 kg	*13,000 kg	7,950 kg	*8,900 kg	*8,900 kg		
-3.0 m	7,800 kg	4,900 kg			8,250 kg	5,150 kg	*12,100 kg	8,100 kg	*16,650 kg	*16,650 kg		
-4.5 m	*8,950 kg	8,000 kg					*9,550 kg	8,400 kg				

PC220LC-8M0 Arm: 2,500 mm Bucket: 1.0 m³ SAE heaped Shoe: 700 mm triple grouser												
A B	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*5,300 kg	*5,300 kg			*5,250 kg	*5,250 kg						
6.0 m	*5,100 kg	4,450 kg			*5,200 kg	*5,200 kg						
4.5 m	*5,200 kg	3,700 kg	*5,600 kg	4,100 kg	*6,000 kg	6,000 kg	*7,100 kg	*7,100 kg				
3.0 m	5,200 kg	3,350 kg	6,050 kg	3,900 kg	*7,250 kg	5,650 kg	*9,900 kg	8,950 kg				
1.5 m	5,000 kg	3,200 kg	5,900 kg	3,750 kg	8,450 kg	5,350 kg	*12,200 kg	8,300 kg				
0 m	5,150 kg	3,250 kg	5,800 kg	3,650 kg	8,250 kg	5,150 kg	*13,050 kg	7,950 kg				
-1.5 m	5,700 kg	3,600 kg	5,750 kg	3,600 kg	8,150 kg	5,050 kg	*13,100 kg	7,900 kg	*10,100 kg	*10,100 kg	*8,950 kg	*8,950 kg
-3.0 m	6,950 kg	4,350 kg			8,200 kg	5,100 kg	*12,550 kg	8,000 kg	*17,950 kg	*16,450 kg	*10,050 kg	*10,050 kg
-4.5 m	*8,800 kg	6,500 kg					*10,700 kg	8,300 kg	*15,150 kg	*15,150 kg		

PC220LC-8M0 Arm: 3,045 mm Bucket: 1.0 m³ SAE heaped Shoe: 700 mm triple grouser												
A B	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*3,350 kg	*3,350 kg			*4,350 kg	*4,350 kg						
6.0 m	*3,200 kg	*3,200 kg	*4,700 kg	4,200 kg	*4,450 kg	*4,450 kg						
4.5 m	*3,250 kg	3,250 kg	*5,050 kg	4,100 kg	*5,300 kg	*5,300 kg						
3.0 m	*3,400 kg	2,900 kg	*5,650 kg	3,900 kg	*6,600 kg	5,700 kg	*8,700 kg	*8,700 kg	*11,950 kg	*11,950 kg		
1.5 m	*3,750 kg	2,800 kg	5,900 kg	3,750 kg	*7,900 kg	5,350 kg	*11,300 kg	8,400 kg	*6,750 kg	*6,750 kg		
0 m	*4,250 kg	2,850 kg	5,750 kg	3,600 kg	8,250 kg	5,100 kg	*12,650 kg	7,950 kg	*8,250 kg	*8,250 kg		
-1.5 m	4,950 kg	3,100 kg	5,650 kg	3,550 kg	8,050 kg	4,950 kg	*12,950 kg	7,800 kg	*9,850 kg	*9,850 kg	*7,650 kg	*7,650 kg
-3.0 m	5,800 kg	3,650 kg	5,700 kg	3,550 kg	8,050 kg	5,000 kg	*12,750 kg	7,850 kg	*17,800 kg	16,250 kg	*10,600 kg	*10,600 kg
-4.5 m	*7,900 kg	5,000 kg			*8,200 kg	5,150 kg	*11,550 kg	8,100 kg	*16,550 kg	*16,500 kg		

* 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.



STANDARD EQUIPMENT

»ENGINE

- »Automatic engine warm-up system.
- »Dry type air cleaner, double element.
- »Engine, Komatsu SAA6D107E-1.
- »Engine overheat prevention system.
- »Radiator and oil cooler dust proof net.
- »Suction fan.

»ELECTRICAL SYSTEM

- »Auto-decel.
- »Alternator, 24 V/35 A.
- »Batteries, 2 X 12 V/110 Ah.
- »Starting motor, 24 V/4.5 kW.
- »Working light, 2 (Boom and RH).

»HYDRAULIC SYSTEM

- »Boom holding valve.
- »Power maximizing system.
- »PPC hydraulic control system.
- »Working mode selection system.

»GUARDS AND COVERS

- »Fan guard structure.
- »Track guiding guard, center section.

»UNDERCARRIAGE

- »Hydraulic track adjusters (Each side).
- »Track roller
 - PC220-8M0, 8 (Each side).
 - PC220LC-8M0, 10 (Each side).
- »Track shoe
 - PC220-8M0, 600 mm triple grouser.
 - PC220LC-8M0, 700 mm triple grouser.

»OPERATOR ENVIRONMENT

- »EMMS monitoring system.
- »Multi-function color monitor.
- »Rear view mirrors (RH, LH, rear, sidewise).
- »ROPS cab (ISO 12117-2).

»OTHER EQUIPMENT

- »Counterweight.
- »Electric horn.
- »Rear reflector.
- »Travel alarm.
- »Slip-resistant plates.



OPTIONAL EQUIPMENT

»ENGINE

- »Additional filter system for poor-quality fuel (Water separator).
- »Air pre-cleaner.
- »Large capacity fuel pre-filter.

»ELECTRICAL SYSTEM

- »Alternator, 24 V/60 A.
- »Batteries, large capacity.
- »Working lights
 - 2 on cab.
 - 1 on counterweight.

»HYDRAULIC SYSTEM

- »Long lubricating intervals for work equipment bushing (500 hours).
- »Service valve.

»UNDERCARRIAGE

- »Shoes, triple grouser shoes.
 - PC220-8M0, 700 mm, 800 mm.
 - PC220LC-8M0 600 mm, 800 mm, 900 mm.
- »Track roller guards (Full length).
- »Track frame undercover.

»OPERATOR ENVIRONMENT

- »Air conditioner with defroster.
- »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.

- »Heater with defroster.
- »Rear view monitoring system.
- »Seat belt, retractable.
- »Seat, suspension.

»WORK EQUIPMENT

- »Arms
 - 2,000 mm arm assembly.
 - 2,500 mm arm assembly.
 - 3,045 mm arm assembly.
- »Boom, 5,850 mm.



SPECIAL PURPOSE BUCKET

»Ditch cleaning bucket

- »Capacity
 - SAE heaped 0.80 m³.
 - CECE heaped 0.70 m³.
- »Width 1,800 mm.

»Slope finishing bucket

- »For scraping slopes of banks.
- »Capacity
 - SAE heaped 0.4 m³.
 - CECE heaped 0.35 m³.
- »Width 2,000 mm.

»Trapezoidal bucket

- »Is ideal for digging ditches and for drainage works.
- »Capacity
 - SAE heaped 0.7 m³.
 - CECE heaped 0.5 m³.

»Ripper bucket

- »For hard and rocky ground.
- »Capacity
 - SAE heaped 0.62 m³.
 - CECE heaped 0.56 m³.
- »Width 990 mm.

»Single-shank ripper and three-shank ripper

- »Are recommended for rock-digging and crushing, hard soil digging, pavement-removal works, etc.

**Optional equipment may not be available in your country.
Please contact your Distributor for further information.**



SATELLITE MONITORING SYSTEM

KOMTRAX is a revolutionary tracking system designed to save time and money. Nowadays, the equipment can be tracked anytime and anywhere. This valuable data, received via the KOMTRAX website, can be used to optimize planning of the movements and performance of the equipment.

FEATURES

» LOCATION

KOMTRAX uses a satellite positioning network to inform the location of the equipment.

» GEOFENCE

In partnership with their Komatsu Distributor, owners can create virtual fences (Geo) to receive alerts when the equipment enters or leaves the designated range for operations.

» SERVICE METER READING

Daily report of the equipment's working hours, which allows planning maintenance and replacement of components.

» KOMTRAX OPERATION MAPS

In the operation maps you can check the times of the day when the equipment is in operation and if the workers are

performing their duties in the stipulated times.

» FUEL MEASUREMENT LEVEL

Shows the amount of fuel at the end of the working day.

» WATER TEMPERATURE DAILY RECORD

Constant record of the increase of engine water temperature with a daily report at the end of the day.

» CAUTIONS

If a light turns on in the cab of the equipment it indicates that a problem occurs. From the website of the application you can review the reason for the problem, the time it occurred and a record number will be generated.

» ABNORMALITY CODES

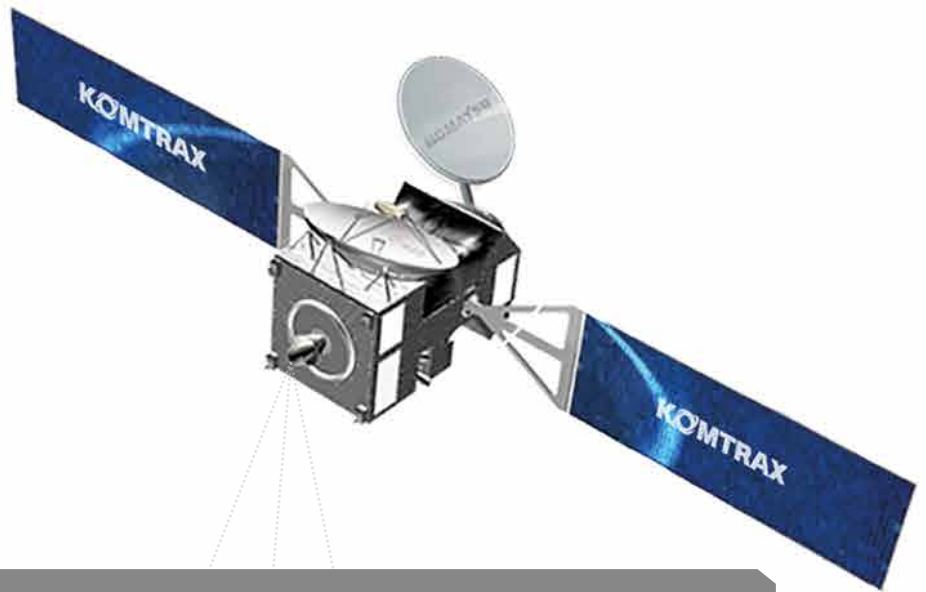
Abnormality codes are transmitted to the Komatsu Distributor for troubleshooting before technicians arrive at the workplace. An email notification is also sent with the code of what happened.

» NOTICE OF MAINTENANCE REPLACEMENT

The system generates alerts to inform that the equipment requires change of elements like filters and oil.

» EQUIPMENT KEY HOURS

Detailed information on key equipment hours such as excavation, moving, digging, alleviating and elevation. This can help to monitor and compare equipment performance, in addition to working hours and idle times.



FEATURES

» **LOADING FREQUENCY**

Information on the load factor of the equipment to know if it is performing a light, medium or heavy work.

» **ANTI-THEFT ENGINE LOCK**

KOMTRAX has a system to lock and unlock the motor of the equipment, which will allow the operation only on preset days, hours and areas.

» **FUEL CONSUMPTION**

On new Komatsu equipment, you can get the actual status of the fuel gallons consumed, besides an average of the fuel spent per hour during the period of operation.

» **MONTHLY AND ANNUAL DATA REPORTS**

KOMTRAX generates summaries of all critical system data to help with analysis of fleet utilization, equipment scheduling, future equipment purchases, labor costs, etc.

Check with your Komatsu dealer for the information available for your model and service availability in your country.



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