

KOMATSU®

PC200-7 PC200LC-7

FLYWHEEL HORSEPOWER

143 HP/107 kW @ 1950 rpm

OPERATING WEIGHT

PC200-7: 20785 kg

PC200LC-7: 21955 kg



Photo may include optional equipment.

HYDRAULIC EXCAVATOR

**PC
200**



PC200-7 Series Hydraulic Excavator

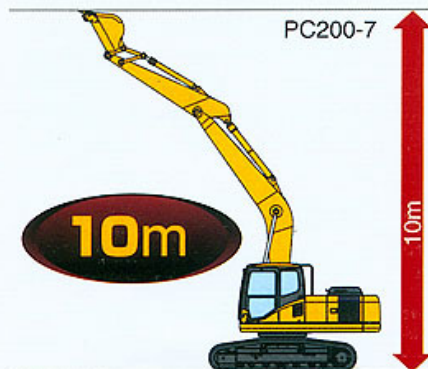
GALEO

Building on the technology and expertise Komatsu has accumulated since its establishment in 1921, GALEO presents customers worldwide with a strong, distinctive image of technological innovation and exceptional value. The GALEO brand will be employed for Komatsu's full lineup of advanced construction and mining equipment. Designed with high productivity, safety and environmental considerations in mind, the machines in this line reflect Komatsu's commitment to contributing to the creation of a better world.

Genuine Answer for Land and Environment Optimization

High Productivity

- The Powerful turbocharged and aftercooled Komatsu SAA6D102E-2 engine provides 143 HP / 107 kW
- Bucket digging force is increased by 10%
- Bucket digging speed is increased by 17%
- Bucket digging power is increased by 29%
- Maximum digging height is increased to 10m for jobs requiring a longer reach



Low Fuel Consumption

- The new generation of Komatsu engine uses fuel wisely
- CLSS HydrauMind hydraulic system reduces hydraulic loss
- Fuel consumption is reduced by 20% with Economy mode when compared with Active mode
- Fuel efficiency is further improved by using Active mode due to increase in production



Easy Maintenance

- Self-diagnostic monitor with machine monitoring and oil maintenance functions
- Replacement interval is extended for engine oil, engine oil filter and hydraulic oil filter
- Remote mounted engine oil filter and fuel drain valve for easy access
- **Water separator is standard equipment**
- Easy radiator cleaning
- Fuel tank capacity is increased to 400 litres with rust prevention treatment

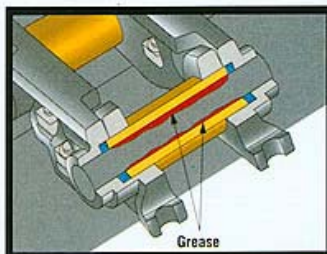
Large and Comfortable Cab

- Cab volume is increased by 14% offering an exceptionally comfortable operating environment
- Engine, swinging, travelling and hydraulic noises are remarkably reduced offering a super quiet operating environment
- The new innovative cab damper mounting further reduces cab vibration during travelling and operation
- The new cab is redesigned for better visibility



Excellent Reliability and Durability

- All of the major components, such as engine, hydraulic pumps, hydraulic control valves, hydraulic motors, etc., are designed and manufactured by Komatsu Ltd, in Japan
- Machine frame, boom and arm are designed by using the most advanced 3D CAD and FEM analysis technology
- Strengthened boom is standard equipment
- Strengthened arm is standard equipment
- Highly reliable electrical and electronic devices



Grease Sealed Track provides excellent undercarriage durability

Safety

- New cab design reduces blind spots by 34%
- Safety partition between pump and engine rooms
- Full fan guard for engine
- Thermal guard for turbocharger
- Non-skid footing for safety maintenance
- Large handrail

Harmony with Environment

- The Komatsu SAA6D102E-2 engine meets EPA, EU and Japan Tier II emissions regulations and reduce harmful emissions by 32% without sacrificing power and productivity
- Use less fuel with Economy mode and more fuel efficient with Active mode
- Low noise design

Performance Features



Engine

The PC200-7 gets its exceptional power and work capacity from a Komatsu SAA6D102E-2 engine. Output is **143 HP** (107 kW), providing increased hydraulic power and improved fuel efficiency.

Hydraulics

Unique two-pump system ensures smooth compound movement of the work equipment. HydrauMind controls both pumps for efficient engine power use. This system also reduces hydraulic loss during operation.

Large Digging Height

PC200-7's maximum digging height is **10 m 32'10"**, facilitating jobs that require a longer reach, such as demolition and slope finishing.

Work Mode Selection

The PC200-7 excavator is equipped with three working modes (A, E and B mode). Each mode is designed to match engine speed, pump speed, and system pressure with the current application. This provides the flexibility to match equipment performance to the job at hand.

Working Mode	Application	Advantage
A	Active mode	<ul style="list-style-type: none"> • Maximum production/power • Fast cycle times
E	Economy mode	<ul style="list-style-type: none"> • Excellent fuel economy
B	Breaker operation	<ul style="list-style-type: none"> • Optimum engine rpm, hydraulic flow

Larger Digging Power Provides Increased Production



Bucket Digging Power is obtained by bucket digging force x bucket digging speed. New PC200-7 bucket digging force is increased by 10% and bucket digging speed is increased by 17%, resulting total bucket digging power is increased 29% (bucket digging force compared with PC200). The digging force and speed generated result in the largest digging power and the largest production in the **20 ton, 22 U.S. ton class**.

Bucket Digging Force*: 149 kN **15200 kgf** 33,510

Arm Crowd Force*: 108 kN **11000 kgf** 24,250 lbf

* Measured with Power Max function, 2925 mm 9'7" arm and ISO rating

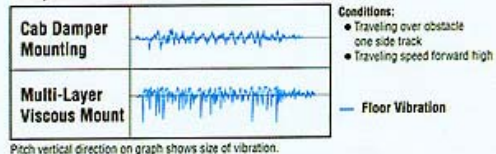
Low Vibration with Cab Damper Mounting

PC200-7 uses new, improved multi-layer viscous mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with strengthened left and right side decks aids vibration reduction at operator seat. Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL).



dB (VL) is index for expressing size of vibration.

Comparison of Riding Comfort



Pitch vertical direction on graph shows size of vibration.

Maintenance Features

Easy Maintenance

The PC200-7 is designed to have easy service access. We know by doing this, routine maintenance and servicing are less likely to be skipped, which means a reduction in costly downtime later on. Here are some of the many service features found on the PC200-7.

- **Easy Radiator Cleaning**

Clearance between radiator and oil cooler is increased to facilitate radiator core cleaning with an air nozzle.



- **Easy Access to Engine Oil Filter and Fuel Drain Valve**

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



- **Water Separator** is standard equipment, removing water mixed in fuel and preventing fuel system damage.

- **Fuel Tank Capacity Increased**

Fuel tank capacity is increased from 340 ltr 89.8 U.S. gal to 400 ltr 105.7 U.S. gal to extend operating hours before refuelling. Fuel tank is treated for rust prevention and improved corrosion resistance.

Reducing Maintenance Costs

- **Hydraulic Oil Filter/Engine Oil and Filter Replacement Interval Extended**

The new high performance filters are used in hydraulic circuit and engine. Hydraulic oil filter, engine oil, and engine oil filter element replacement intervals are significantly extended to reduce maintenance costs.

Comparison of Replacement Intervals unit: hours

	PC200-7	PC200-6
Engine oil	500	250
Engine oil filter	500	250
Hydraulic oil	5,000	5,000
Hydraulic oil filter	1,000	500

Self-Diagnostic Monitor

The PC200-7 features the most advanced diagnostics system in the industry. The Komatsu exclusive system identifies maintenance items, reduces diagnostic times, indicates oil and filter replacement hours and displays error codes.

Continuous Machine Monitoring System

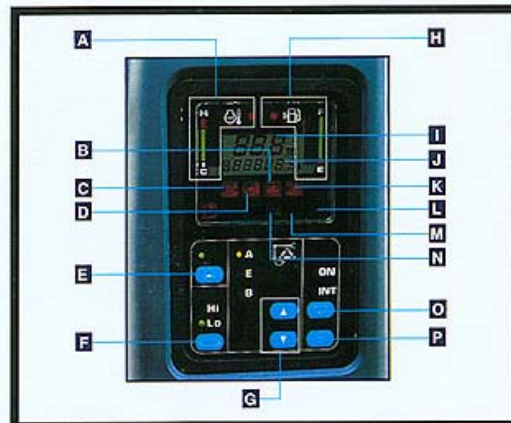
When turning starting switch ON, Check-before-starting item and caution items appear on the liquid crystal panel. If abnormalities are found, a warning lamp blinks and a warning buzzer sounds. The continuous machine condition checks help prevent the development of serious problems and allows the operator to concentrate on the controls.

Abnormalities on Electronic System Display with Code

When an error occurs during operation, a user code is displayed. When an important user code is displayed, a caution lamp blinks and a warning buzzer sounds to prevent the development of serious problems.

Oil Maintenance Function

When machine exceeds oil or filter replacement time, oil maintenance monitor lights to inform operator.



- A Engine Water Temperature
- B Battery Charge
- C Engine Oil Pressure
- D Air Cleaner Clogging Monitor
- E Auto-Decel Switch
- F Travel Speed Select Switch
- G Working Mode Select Switch
- H Fuel Level Monitor
- I User or Trouble Code Display
- J Service Meter Display
- K Engine Oil Level
- L Engine Preheat
- M Swing Lock Display
- N Oil Maintenance
- O Windshield Wiper Switch
- P Windshield Washer Switch

Specifications



ENGINE

Model.....	Komatsu SAA6D102E-2
Type.....	Water-cooled, 4 cycle, direct injection
Aspiration.....	Turbocharged, aftercooled
Number of cylinders.....	6
Bore.....	102 mm 4.02"
Stroke.....	120 mm 4.72"
Piston displacement.....	5.88 ltr 359 in ³
Flywheel horsepower:	
SAE J1349.....	143 HP/107 kW @ 1950 rpm
DIN6270.....	145 PS/107 kW @ 1950 rpm
Governor.....	All-speed control, mechanical
Meets 2001 EPA, EU and Japan Tier II emission regulations.	



HYDRAULICS

Type.....	HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-centre system with load sensing valves and pressure compensated valves
Number of selectable working modes.....	3
Main pump:	
Type.....	Variable displacement piston type
Pumps for.....	Boom, arm, bucket, swing, and travel circuits
Maximum flow.....	428 ltr/min 113 U.S. gal/min
Supply for control circuit.....	Self-reducing valve
Hydraulic motors:	
Travel.....	2 x axial piston motor with parking brake
Swing.....	1x axial piston motor with swing holding brake
Relief valve setting:	
Implement circuits.....	37.3 MPa 380 kgf/cm ² 5,400 psi
Travel circuit.....	37.3 MPa 380 kgf/cm ² 5,400 psi
Swing circuit.....	28.9 MPa 295 kgf/cm ² 4,190 psi
Pilot circuit.....	3.2 MPa 33 kgf/cm ² 470 psi
Hydraulic cylinders:	
(Number of cylinders – bore x stroke x rod diameter)	
Boom.....	2 – 120 mm x 1334 mm 85 mm 4.7" x 52.5" x 3.3"
Arm.....	1 – 135 mm x 1490 mm 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 levers with pedals
Drive method.....	Hydrostatic
Maximum drawbar pull.....	178 kN 18200 kg 40, 120 lbf
Gradeability.....	70%, 35°
Maximum travel speed: High.....	5.5 km/h 3.4 mph
(Auto-Shift) 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



UNDERCARRIAGE

Centre frame.....	X-frame
Track frame.....	Box-section
Seal of track.....	Sealed track
Track adjuster.....	Hydraulic
Number of shoes (each side):	
PC200-7.....	45
PC200LC-7.....	49
Number of carrier rollers.....	2 each side
Number of track rollers (each side):	
PC200-7.....	7
PC200LC-7.....	9



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank.....	400 ltr 105.7 U.S. gal
Coolant.....	22.4 ltr 5.9 U.S. gal
Engine.....	24.0 ltr 6.3 U.S. gal
Final drive, each side.....	4.5 ltr 1.2 U.S. gal
Swing drive.....	6.6 ltr 1.7 U.S. gal
Hydraulic tank.....	143 ltr 37.8 U.S. gal



OPERATING WEIGHT (APPROXIMATE)

Operating weight including 5700 mm 18'8" one-piece boom, 2925 mm 9'7" arm, SAE heaped 0.80 m³ 1.05 yd³ backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

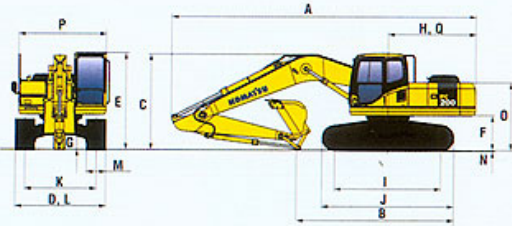
Shoes	PC200-7		PC200LC-7	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
600 mm 23.6"	20185 kg 44,320 lb	46.1 kPa 0.47 kgf/cm ² 6.69 psi	21405 kg 47,195 lb	45.1 kPa 0.46 kgf/cm ² 6.54 psi
700 mm 27.6"	20485 kg 45,158 lb	40.2 kPa 0.41 kgf/cm ² 5.83 psi	21675 kg 47,790 lb	39.2 kPa 0.40 kgf/cm ² 5.69 psi
800 mm 31.5"	20785 kg 45,820 lb	35.3 kPa 0.36 kgf/cm ² 5.12 psi	21955 kg 48,405 lb	34.3 kPa 0.35 kgf/cm ² 4.98 psi



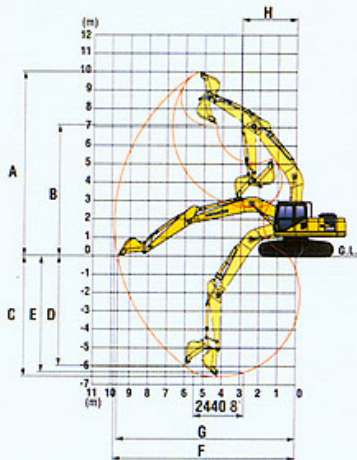
DIMENSIONS

	Arm Length	1840 mm 6'0"	2410 mm 7'11"	2925 mm 9'7"
A	Overall length	9480 mm 31'11"	9495 mm 31'2"	9425 mm 30'11"
B	Length on ground (transport): PC200-7	6270 mm 20'7"	5700 mm 18'8"	4815 mm 15'10"
	PC200LC-7	6455 mm 21'2"	5885 mm 19'4"	5000 mm 16'5"
C	Overall height (to top of boom)	2985 mm 9'10"	3190 mm 10'6"	2970 mm 9'9"

		PC200-7	PC200LC-7
D	Overall width	3000 mm 9'10"	3180 mm 10'5"
E	Overall height (to top of cab)	3000 mm 9'10"	3000 mm 9'10"
F	Ground clearance, counterweight	1085 mm 3'7"	1085 mm 3'7"
G	Ground clearance (minimum)	440 mm 1'5"	440 mm 1'5"
H	Tail swing radius	2750 mm 9'0"	2750 mm 9'0"
I	Track length on ground	3270 mm 10'9"	3640 mm 11'11"
J	Track length	4080 mm 13'5"	4450 mm 14'7"
K	Track gauge	2200 mm 7'3"	2380 mm 7'10"
L	Width of crawler	3000 mm 9'10"	3180 mm 10'5"
M	Shoe width	800 mm 31.5"	800 mm 31.5"
N	Grouser height	26 mm 1.0"	26 mm 1.0"
O	Machine cab height	2095 mm 6'10"	2095 mm 6'10"
P	Machine cab width	2710 mm 8'11"	2710 mm 8'11"
Q	Distance, swing center to rear end	2710 mm 8'11"	2710 mm 8'11"



WORKING RANGE



	Arm	1840 mm 6'0"	2410 mm 7'11"	2925 mm 9'7"
A	Max. digging height	9500 mm 31'2"	9800 mm 32'2"	10000 mm 32'10"
B	Max. dumping height	6630 mm 21'9"	6890 mm 22'7"	7110 mm 23'4"
C	Max. digging depth	5380 mm 17'8"	6095 mm 20'0"	6620 mm 21'9"
D	Max. vertical wall digging depth	4630 mm 15'2"	5430 mm 17'10"	5980 mm 19'7"
E	Max. digging depth of cut for 8° level	5130 mm 16'0"	5780 mm 19'0"	6370 mm 20'11"
F	Max. digging reach	8850 mm 29'1"	9380 mm 30'9"	9875 mm 32'5"
G	Max. digging reach at ground level	8660 mm 28'5"	9190 mm 30'2"	9700 mm 31'10"
H	Min. swing radius	3010 mm 9'11"	3090 mm 10'2"	3040 mm 10'0"
SAE rating	Bucket digging force at power max.	138 kN 14100 kgf/31,080 lb	138 kN 14100 kgf/31,080 lb	138 kN 14100 kgf/31,080 lb
	Arm crowd force at power max.	139 kN 14200 kgf/31,300 lb	124 kN 12600 kgf/27,780 lb	101 kN 10300 kgf/22,710 lb
ISO rating	Bucket digging force at power max.	149 kN 15200 kgf/33,510 lb	149 kN 15200 kgf/33,510 lb	149 kN 15200 kgf/33,510 lb
	Arm crowd force at power max.	145 kN 14800 kgf/32,630 lb	127 kN 13000 kgf/28,660 lb	108 kN 11000 kgf/24,250 lb



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	Without Side Cutters	With Side Cutters		1.84 m 6'0"	2.41 m 7'11"	2.93 m 9'7"
0.80 m ³ 1.05 yd ³	0.70 m ³ 0.92 yd ³	1045 m ³ 41.1"	1150 m ³ 45.3"	645 kg 1,420 lb	645 kg 1,420 lb	5	○	○	○
0.93 m ³ 1.22 yd ³	0.80 m ³ 1.05 yd ³	1200 m ³ 47.2"	1305 m ³ 51.1"	696 kg 1,530 lb	696 kg 1,530 lb	5	□	□	●
1.05 m ³ 1.37 yd ³	0.90 m ³ 1.12 yd ³	1330 m ³ 52.4"	1435 m ³ 52.3"	757 kg 1,670 lb	757 kg 1,670 lb	6	□	□	✘
1.17 m ³ 1.53 yd ³	1.00 m ³ 1.13 yd ³	1450 m ³ 57.1"	-	940 kg 2,070 lb	940 kg 2,070 lb	6	●	●	✘

○ : General purpose use, density up to 1.8 ton/m³ 1.52 U.S. ton/yd³ ● : Light duty work, density up to 1.2 ton/m³ 1.01 U.S. ton/yd³
 □ : General purpose use, density up to 1.5 ton/m³ 1.52 U.S. ton/yd³ ✘ : Not usable



STANDARD EQUIPMENT

- Alternator, 35 Ampere, 24 V
- Arm, 2925mm 9'7" strengthened
- Auto-Decel
- Automatic deaeration system for fuel line
- Automatic engine warm-up system
- Batteries, 100 Ah/2 x 12 V
- Boom, 5700mm 18'8" strengthened
- Boom holding valve
- Bucket, SAE 0.8m³
- Cab
- Counterweight
- Dry type air cleaner, double element
- Electric horn
- Engine, Komatsu SAA6D102E-2
- Engine overheat prevention system
- Fan guard structure
- Hydraulic track adjusters (each side)
- Monitor panel, 7-segment
- Power maximizing system
- PPC hydraulic control system
- Radiator and oil cooler dustproof net
- Radio (AM/FM) & tape cassette
- Rearview mirror, RH
- Seat, Standard
- Starting motor, 4.5 kW/24 V x 1
- Suction fan
- Track guiding guard, centre section
- Thermal guard for turbocharger
- Track roller
 - PC200-7, 7 each side
 - PC200LC-7, 9 each side
- Track shoe
 - PC200-7, 800mm 31.5" triple grouser
 - PC200LC-7, 800mm 31.5" triple grouser
- Water separator
- Working lights, 5
 - 2 on boom
 - 2 on cab
 - 1 on frame (RH)
- Working mode selection system



OPTIONAL EQUIPMENT

- Alternator, 60 Ampere, 24 V
- Arms
 - 2410 mm 7'11"
 - 1840 mm 6'0"
- Batteries, large capacity
- Buckets
 - SAE 0.80 m³
 - SAE 0.93 m³
 - SAE 1.05 m³
 - SAE 1.17 m³
- Rearview mirror (LH)
- Seat belt, retractable
- Seat, suspension
- Service valve
- Shoe, triple grouser
 - PC200-7:
 - 600mm 23.6" 700mm 27.6"
 - PC200LC-7:
 - 600mm 23.6" 700mm 27.6"
- Track frame undercover
- Track roller guards (full length)
- Travel alarm

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subjected to change without notice



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BANGKOK MOTOR WORKS CO.,LTD.

54 MOO 2 BANGNA-TRAD HIGHWAY KM.22
T.SRISAJORAKHAEYAI, BANGSAOTHONG MINOR DISTRICT,
SAMUTPRAKARN 10540
TEL. (662) 7401500-19, 7401600 FAX. 7401597-8
E-mail : bmwc_mkt@ksc.th.com

