

PC200-5 PC200LC-5

HYDRAULIC EXCAVATOR



Model shown may include optional equipment

KOMATSU: The Quality is Standard.

FLYWHEEL HORSEPOWER: 123HP @ 2050 RPM. BUCKET CAPACITY: .40-1.17m³ (.50-1.53 yd³).

OPERATING WEIGHT: 19439kg (42,860 lb)/WITH LC UNDERCARRIAGE: 19730kg (43,500 lb).

- Working mode selection system matches machine performance to actual job conditions
- OLSS system conserves fuel by preventing neutral, fine control and relief losses
- "Power max" button temporarily boosts digging forces for added power in tough situations
- Autodecelerator lowers engine speed whenever the work equipment and travel controls are in neutral for additional fuel savings
- Hi-Lo travel speed system automatically selects the correct travel speed depending on ground conditions and operator selection
- Merged circuits reduce cycle times
- Straight travel circuit assures straight travel, even during simultaneous operations
- Spacious, well-ventilated cab, excellent visibility and adjustable wrist controls add to the operator's comfort and productivity
- Adjustable electronic monitor and control console puts all control and monitoring functions at your fingertips
- Long track length and a wide track gauge provide for greater stability and increased lifting capacities.

The New Frontier of Technology

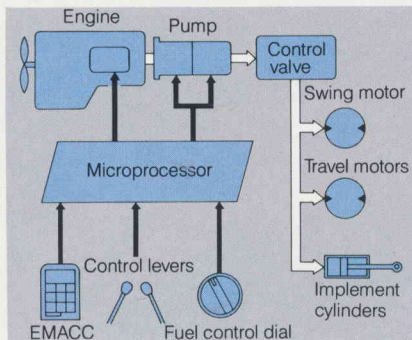
UNEQUALLED PERFORMANCE AND FUEL ECONOMY

Working Mode Selection System

This system allows the operator to match machine performance and economy to the task at hand by selecting either the "Heavy Duty Operations," "General Operations," "Finishing Operations" or "Lifting Operations" mode. Just simply select the appropriate working mode and the microcomputer does the rest.

Pump and Engine Mutual Control System

A microprocessor automatically varies engine speed and pump output for maximum fuel efficiency without sacrificing productivity.

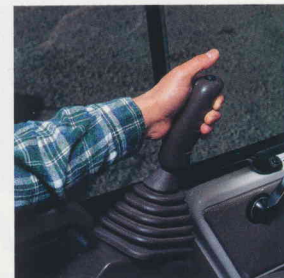


Electronic Monitor and Control Console (EMACC)

The EMACC puts all system controls and display functions within easy view and reach of the operator. The console can also be rotated through three positions to provide the best, glare-free viewing angle.

The EMACC Consists of:

- Working Modes
- Power Modes: Three modes (H, S and L) are automatically set in accordance with the working mode. Manual reset is also possible.
- Autodeceleration
- Monitor: constantly checks machine's condition
 - Pre-start level checks
 - Fuel gauge
 - Coolant temperature gauge
 - Caution items: coolant level and temperature, fuel level, oil pressure, and charge system
- Lo-Hi travel speed selector
- Swing lock indicator
- Wiper controls: intermittent or continuous
- Heater fan control



Power max. button

"Power Max" Button
 Located on top of the left hand control lever, the "power max" button temporarily increases digging forces for added power in tough digging situations.

The New Frontier of Quality



EASY AND COMFORTABLE OPERATION



Automatic Hi-Lo Travel Speed

Travel speed is automatically shifted to either "Hi" or "Lo," depending on ground conditions and operator selection.

Fuel Control Dial

The easy to use dial makes adjusting the engine speed quick and effortless.

Engine Key Stop

To stop the engine, simply turn the ignition key to off.

Spacious Cab

The roomy, efficient cab design has a large glass area for excellent visibility, as well as sliding front and side windows for cross ventilation.

Adjustable Wrist Control Levers

Unitized wrist control levers and arm rests can be adjusted through three work positions for maximum operator comfort. The proportional pressure wrist controls reduce operating effort while assuring precise work equipment operations.

Adjustable Operator's Seat

The fully adjustable suspension seat provides outstanding comfort.

Boom Lock Valve

The boom circuit is equipped with a boom holding valve to prevent hydraulic drift of the work equipment.

Swing Lock

The swing can be locked for transport simply by flicking a switch.

Quality Improvements Include:

- Added filters and radiator dust-resistant screening to keep the hydraulic system clean and cool.
- Double lock electronic connectors and in-cab mounted electronic microprocessor provide increased reliability and protection from the elements.

Automatic Warm-Up System

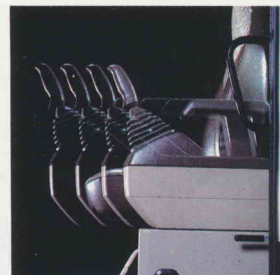
Engine speed is automatically controlled by the microprocessor when coolant temperature is low for fast, fuel efficient and reliable engine warm-up.

Engine Overheat Prevention

Should the coolant temperature rise above desired levels, pump output and engine speed are reduced, preventing damage to the engine.

Other Performance-Proven Features

- OLSS (Open-Center Load Sensing System) reduces hydraulic losses.
- Autodeceleration boosts fuel economy.
- Swing holding brake makes working on slopes much easier.
- Car-like operator's cab
- X-leg frame for excellent stability.
- Merged circuits shorten cycle times.
- Straight travel circuits facilitate simultaneous work equipment/travel operations.



Adjustable wrist control lever

SPECIFICATIONS



ENGINE

Komatsu S6D95L 4-cycle, water-cooled, turbocharged diesel engine with 6 cylinders, 95 mm (3.74") bore x 115 mm (4.53") stroke and 4.89 ltr (298 in³) piston displacement
 Flywheel horsepower **123 HP @ 2050 RPM**
 The engine features direct injection for fuel economy, a mechanical all-speed governor, forced lubrication with a full-flow filter, dry-type air cleaner with dust indicator and automatic dust evacuator, 24 V/5.5 kw starting system with 25A alternator, 2 x 12V/110 Ah batteries.



HYDRAULIC SYSTEM

Two variable capacity piston pumps and independent swing operation assure smooth compound movements of the work equipment. The Pump and Engine Mutual Control (PEMC) system controls the engine speed and pump output for maximum fuel efficiency and productivity. The Open-center Load Sensing System (OLSS) controls the pumps for efficient use of engine power, reduced hydraulic losses during operation, and low fuel consumption.

Two variable-capacity piston pumps power boom, arm, bucket swing and travel circuits. One gear pump powers pilot control circuits.

Pump capacities (discharge flow @ 2050 engine RPM):
 Piston 190 ltr (50 U.S. gal) min x 2
 Gear 50 ltr (13 U.S. gal) min

Hydraulic motors:
 Travel Two axial piston motors with parking brake
 Swing One axial piston motor with swing holding brake

Relief valve settings:
 Implement circuits 325 kg/cm² (4,620 psi)
 Swing circuit 275 kg/cm² (3,910 psi)
 Pilot circuit 30 kg/cm² (430 psi)
 Travel circuit 340 kg/cm² (4,830 psi)

Control valves:
 4-spool and 5-spool valves with a service valve

No. of cylinders — bore x stroke:
 Boom 2-120 mm x 1285 mm (4.7" x 4'2")
 Arm 1-135 mm x 1490 mm (5.3" x 4'10")
 Bucket 1-115 mm x 1120 mm (4.5" x 3'8")



STEERING

Steering/traveling controls are activated with either hand levers or foot pedals. Pushing both levers (or pedals) moves machine forward. Pulling them back makes machine go into reverse. Setting one lever (or pedal) in neutral and the other in forward enables machine to make a pivot turn. Pushing one forward while pulling the other backward makes machine counterrotate on the spot.



DRIVES

Fully hydrostatic drive with each track powered by an axial piston motor. Power goes through a double-reduction planetary gear to the track.

STANDARD UNDERCARRIAGE
 Maximum drawbar pull 17700 kg (39,020 lb)

Maximum travel speed 5.5 km/h (3.4 MPH)
LC UNDERCARRIAGE
 Maximum drawbar pull 17700 kg (39,020 lb)
 Maximum travel speed 5.5 km/h (3.4 MPH)



BRAKES

Each travel motor is equipped with a brake valve that lessens shock when applied, and limits speed during descent. The wet, multiple-disc brakes actuate on the final-drive input shaft and automatically lock when the travel/steering levers and/or pedals are in neutral.



SWING SYSTEM

The swing system is powered by a hydraulic driven motor through spur and planetary gears. Single-row, shear type ball bearings with induction-hardened internal gears are built into the swing circle. Grease-bathed swing pinion, electric swing lock and swing holding brake are provided. Swing speed is proportional to swing control lever stroke.

Max. swing speed 13 RPM
 Tail-swing radius 2700 mm (8'10")
 Min. swing radius 3775 mm (11'11")
 (work equipment, fully retracted)



UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes sealed tracks, lubricated rollers and idlers, hydraulic track adjusters with shock absorbing springs, and assembled track-type tractor shoes with triple grousers.

STANDARD UNDERCARRIAGE
 Shoe width 700 mm (27.6")
 Grouser height 26 mm (1")
 Number of shoes (each side) 45
 Number of carrier rollers (each side) 2
 Number of track rollers (each side) 7
 Ground pressure 0.39 kg/cm² (5.60 psi)

LC UNDERCARRIAGE
 Shoe width 700 mm (27.6")
 Grouser height 26 mm (1")
 Number of shoes (each side) 49
 Number of carrier rollers (each side) 2
 Number of track rollers (each side) 9
 Ground pressure 0.36 kg/cm² (5.13 psi)



SERVICE REFILL CAPACITIES

Fuel tank 310 ltr (82 U.S. gal)
 Coolant 16 ltr (4.0 U.S. gal)
 Engine 18 ltr (5.0 U.S. gal)
 Final drive (each side) 8 ltr (2 U.S. gal)
 Swing drive 9 ltr (2.3 U.S. gal)
 Hydraulic oil 170 ltr (45 U.S. gal)



OPERATING WEIGHT

Including 5700 mm (18'8") one-piece boom, 2925 mm (9'7") arm, 0.80 m³ (1.0 yd³) backhoe bucket, operator, lubricant, coolant and full fuel tank 19439 kg (42,860 lb)
 with **LC UNDERCARRIAGE** 19730kg (43,500 lb)

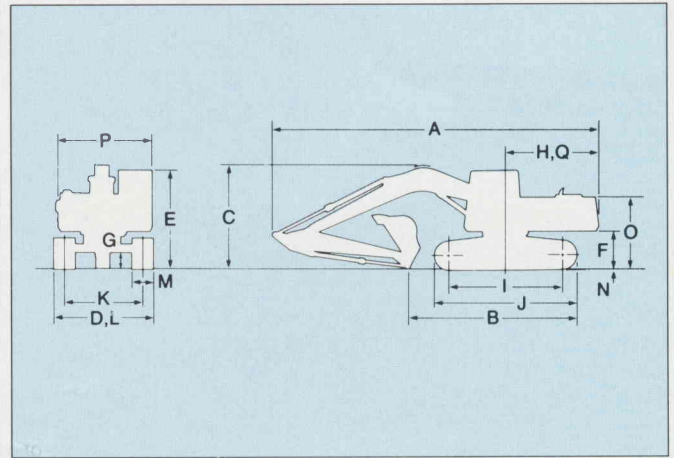


DIMENSIONS

* with arm extension

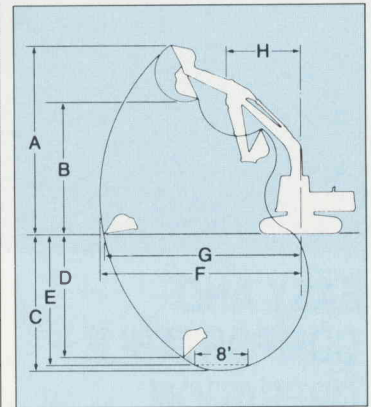
			1.80 m (5'11") arm	2.40 m (7'10") arm	2.93 m (9'7") arm	*4.06 m (13'4") arm
A	Overall length		9390 mm (30'10")	9435 mm (30'11")	9380 mm (30'9")	9380 mm (30'9")
B	Length on ground (transport)	PC200	6285 mm (20'7")	5715 mm (18'9")	4870 mm (16')	4120 mm (13'6")
		PC200LC	6475 mm (21'3")	5905 mm (19'4")	5060 mm (16'9")	4310 mm (14'2")
C	Overall height (to top of boom)		3005 mm (9'10")	3050 mm (10')	2940 mm (9'8")	3170 mm (10'5")

		PC200-5	PC200LC-5
D	Overall width	2780 mm (9'1")	3080 mm (10'1")
E	Overall height (to top of cab)	2860 mm (9'5")	2860 mm (9'5")
F	Ground clearance, counterweight	1075 mm (3'6")	1075 mm (3'6")
G	Min. ground clearance	440 mm (1'5")	440 mm (1'5")
H	Tail swing radius	2700 mm (8'10")	2700 mm (8'10")
I	Length of track on ground	3260 mm (10'8")	3640 mm (11'11")
J	Track length	4070 mm (13'4")	4450 mm (14'7")
K	Track gauge	2180 mm (7'2")	2380 mm (7'10")
L	Width of crawler	2780 mm (9'1")	3080 mm (10'1")
M	Shoe width	600 mm (24")	700 mm (27.5")
N	Grouser height	26 mm (1")	26 mm (1")
O	Machine cab height	2055 mm (6'9")	2055 mm (6'9")
P	Machine cab width	2480 mm (8'2")	2480 mm (8'2")
Q	Distance, swing center to rear end	2690 mm (8'10")	2695 mm (8'10")



WORKING RANGE

		1.80 m (5'11") arm	2.40 m (7'10") arm	2.93 m (9'7") arm	*4.06 m (13'4") arm
A	Max. digging height	8895 mm (29'2")	9050 mm (29'8")	9280 mm (30'5")	9700 mm (31'10")
B	Max. dumping height	6065 mm (19'11")	6255 mm (20'6")	6460 mm (21'2")	6970 mm (22'10")
C	Max. digging depth	5535 mm (18'2")	6095 mm (20')	6620 mm (21'9")	7725 mm (25'4")
D	Max. vertical wall digging depth	4965 mm (16'3")	5315 mm (17'5")	5980 mm (19'7")	7075 mm (23'3")
E	Max. digging depth of cut for 8" level	5160 mm (16'11")	5840 mm (19'2")	6435 mm (21'1")	7590 mm (24'11")
F	Max. digging reach	8915 mm (29'3")	9395 mm (30'10")	9875 mm (32'5")	10880 mm (35'8")
G	Max. digging reach at ground	8720 mm (28'7")	9205 mm (30'2")	9700 mm (31'10")	10705 mm (35'1")
H	Min. swing radius	3640 mm (11'11")	3710 mm (12'2")	3630 mm (11'11")	3630 mm (11'11")
Bucket digging force		14200 kg (31,310 lb)	12500 kg (27,560 lb)	12500 kg (27,560 lb)	12500 kg (27,560 lb)
Arm crowd force		12600 kg (27,780 lb)	11200 kg (24,690 lb)	10000 kg (22,050 lb)	7890 kg (17,390 lb)



* - 9'7" arm with 3'9" arm extension



BUCKETS

	Capacity m ³ (yd ³) SAE, PCSA heaped	Width mm (in)		Weight kg (lb)		No. of teeth	ARMS			
		without side cutters	with side cutters	without side cutters	with side cutters		1.8m (5'11")	2.4m (7'11")	2.9m (9'7")	*4.0m (13'4")
LIGHT DUTY BUCKETS	1.05 (1.37)	1330 (52.4)	1435 (56.5)	620 (1,367)	650 (1,434)	6	○	□	X	X
	1.17 (1.53)	1450 (57.1)	—	660 (1,455)	—	6	○	□	X	X
MID-HEAVY DUTY BUCKETS	0.50 (0.69)	610 (24)	712 (28)	612 (1,350)	642 (1,417)	4	○	○	○	○ †
	0.60 (0.81)	711 (28)	813 (32)	625 (1,380)	656 (1,447)	4	○	○	○	○ †
	0.80 (1.0)	838 (33)	940 (37)	780 (1,720)	810 (1,787)	4	○	○	○	X
	0.90 (1.19)	965 (38)	1067 (45)	812 (1,790)	842 (1,857)	5	○	□	△	X
HEAVY DUTY BUCKETS (IESCO)	0.40 (0.50)	610 (24)	660 (26)	975 (1,467)	695 (1,534)	4	○	○	○	○ †
	0.60 (0.75)	737 (29)	787 (31)	717 (1,582)	748 (1,650)	4	○	○	○	○ †

○ - Can be used with a material weight up to 3,040 lb/yd³
 □ - Can be used with a material weight up to 2,520 lb/yd³
 △ - Can be used with a material weight up to 2,020 lb/yd³

X - Not useable
 † - Light duty applications only

STANDARD EQUIPMENT

- 24 V/5.5 kW electric starting motor
- 25 A alternator
- 12 V/110 Ah x 2 batteries
- Dry-type air cleaner
- Proportional Pressure hydraulic control
- Electronic Open-Center Load Sensing System and Pump Engine Mutual Control system
- Boom holding valve
- Autodeceleration
- Power maximizing system
- Power mode selection system
- Working mode selection system
- Service valve
- Automatic Hi-Lo travel
- Gauge protector
- Engine overheat prevention system
- Automatic engine warm-up system
- Automatic deaeration system for fuel line
- 700 mm (28") triple-grouser shoes
- Track guiding guards (center section)
- Hydraulic track adjusters
- 3350 kg (7,387 lb) counterweight
- Suction fan
- Fan guard
- Noise suppression kit
- Radiator & oil cooler with dustproof net
- In-line filter
- Revolving frame under guards
- Centralized greasing (work equip. & swing)
- Electric horn
- Front light (1)
- Rearview mirror (RH)
- Vandalism protection locks
- Electronic Monitor and Control Console
- All-weather steel cab (with tinted safety glass windows, pull-up type front window with lock device, removable lower windshield, lattice guard, lockable door, floor mat, intermittent window wiper and washer, adjustable suspension seat with armrest, cigarette lighter, ashtray, heater and defroster)

OPTIONAL EQUIPMENT

- Air conditioner
- Fuel supply pump
- Double air cleaner element
- 35A alternator
- Head guard
- Track frame underguard
- Rearview mirror (LH)
- Warning lights for swing
- Tool kit
- Hydraulic control unit (1)
- 50' super long front (boom, arm, bucket linkage)
- 0.48 yd³ bucket for long front

OPTIONAL SHOES

STANDARD UNDERCARRIAGE

Shoe width mm (in)	600 (23.6) triple grouser	800 (31.5) triple grouser	900 (35.4) triple grouser
Machine ground pressure kg/cm ² (psi)	0.44 (6.37)	0.34 (4.90)	0.31 (4.41)
Additional weight kg (lb)	-510 (1130)	280 (617)	+ 255 (560)
Shoe application code	X	Z	Z

LC UNDERCARRIAGE

Shoe width mm (in)	600 (23.6) triple grouser	800 (31.5) triple grouser	900 (35.4) triple grouser
Machine ground pressure kg/cm ² (psi)	0.41 (5.91)	0.32 (4.55)	0.28 (4.11)
Additional weight kg (lb)	-275 (610)	+ 275 (610)	+ 560 (1,230)
Shoe application code	X	Z	Z

X-Rocky terrain, river banks & general terrain

Y-General or soft terrain

Z-Extremely soft terrain (swamps)

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 **KOMATSU**
KOMATSU MARKETING DIVISION

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