

# PC200-5 PC200LC-5

**HYDRAULIC EXCAVATORS**



**The New Frontier of Technology and Quality**

Operating Weight: PC200 18930 kg **41,730 lb**

PC200LC 19730 kg **43,500 lb**

Bucket Capacity (SAE heaped): 0.36 m<sup>3</sup> ~ 1.17 m<sup>3</sup>

**0.47 cu.yd ~ 1.53 cu.yd**

Flywheel Horsepower: 123 HP **92 kW** at 2050 RPM

 **KOMATSU**  
The New Frontier of Technology & Quality

# The New Frontier of Technology

## UNRIVALED WORK PERFORMANCE AND FUEL ECONOMY



### Electronic Monitor And Control Console (EMACC)

Puts all machine controls and display functions in easy view and reach of the operator. Monitor console rotates and locks in 3 positions providing the best glare free viewing angle from any operator position.

#### EMACC FUNCTIONS:

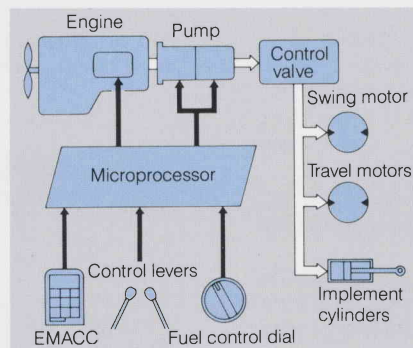
- **Working mode**
- **Power modes:** Three modes (H, S and L) are available. They are automatically set in accordance with the working mode. Manual reset is also possible.
- **Auto-decel**
- **Heater fan control** (option)
- **Swing lock indicator**
- **Monitor** to check the machine's condition
- **"Lo" or "Hi" travel speed selector**
- **Wiper controls:** intermittent or continuous mode
- **Fuel control dial**
- **Engine key switch**

### Working Mode Selection System

The ideal working mode for—"Heavy Duty Operations," "General Operations," "Finishing Operations," or "Lifting Operations" can be selected with the touch of a button. The mode selection system allows the operator to match machine performance and economy to actual job conditions.

### Pump and Engine Mutual Control System

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



### "Power Max." Button

Temporarily increases implement force for added power in tough situations.



## EASY AND COMFORTABLE OPERATION

### 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 off the ignition key.

### Adjustable Wrist Control Levers

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

### Automatic Hi-Lo Travel Speed

A microprocessor shifts the travel speed to either "Hi" or "Lo" depending on ground conditions and operator selection.

### Adjustable operator seat

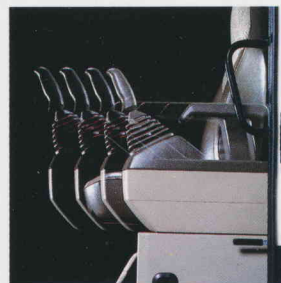
The seat is fully adjustable fore/aft and up/down for optimum operating position.

### Engine Overheat Prevention

Should the coolant temperature rise above desired levels, a microprocessor automatically reduces the hydraulic pump output and engine speed thus preventing damage to the engine.



Power max. button



Adjustable wrist control lever



Low-noise S6D95L diesel engine

# The New Frontier of Quality



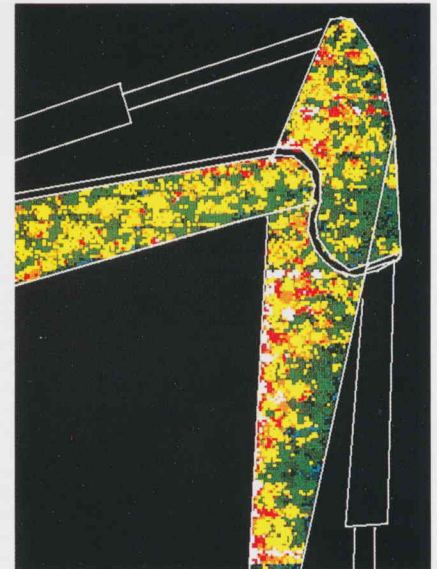
## Tough Implement and Under-carriage Construction

Komatsu quality, the philosophy on which our excavators have built their reputation, now sets the new standards for others to follow. Increased structural integrity is assured with these stringent test:

- Computer aided strength analysis of all major parts
- Infrared ray stress test on all assemblies
- Bench and field endurance tests at loads exceeding design criteria.

## Additional Quality Improvements Include:

- Added filters and radiator dustproof netting 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.



Tough implement and undercarriage construction

## 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.

## Boom Holding Valve

A lock valve in the boom circuit minimizes hydraulic drift for increased control and efficiency.

## Silent Operation

A low noise insulated diesel engine and the Pump and Engine Mutual Control system reduces noise levels to the lowest in the industry today.

## Other performance-proven features

- OLSS (Open-center Load Sensing System) reduces hydraulic losses.
- Auto-decel boosts fuel economy.
- Swing holding brake makes working on slopes much easier.
- Car-like operator's cab
- X-leg frame for excellent stability.
- Hydraulic merging circuits shorten cycle time.
- Straight-travel circuits facilitate simultaneous operation.



## YOU CAN COUNT ON OUR SERVICE

**Training schools worldwide:** Every Komatsu mechanic, salespeople and parts man goes to training school to upgrade their servicing abilities.

**Product support programs:** We'll help you buy the right machines for your operation. Survey on-the-job efficiency. And provide comprehensive service programs for

minimum operation cost and minimum downtime.

**24-hour parts hotline:** Just call your Komatsu parts representative. You'll be in instant touch with our worldwide communications system, for rush service and rush orders on 490,000 parts.

# SPECIFICATIONS



## ENGINE

Model ..... Komatsu S6D95L  
 Type ..... 4-cycle, water-cooled, direct-injection  
 Aspiration ..... Turbocharged  
 No. of cylinders ..... 6  
 Bore ..... 95 mm **3.74"**  
 Stroke ..... 115 mm **4.53"**  
 Piston displacement ..... 4.89 ltr. **298 cu.in**  
 Flywheel horsepower:  
 (SAE J1349) ..... 123 HP **92 kW** at 2050 RPM  
 (DIN 6270 NET) ..... 125 PS **92 kW** at 2050 RPM  
 Governor ..... All-speed, mechanical



## HYDRAULIC SYSTEM

Type ..... Pump and engine mutual control  
 (PEMC) system  
 No. of selectable modes ..... 3  
 Main pump:  
 Type ..... Variable-capacity piston pumps  
 Pumps for ..... Boom, arm, bucket, swing  
 and travel circuits  
 Maximum flow ..... 2 × 190 ltr. **50 U.S. gal/min.**  
 Sub-pump for control circuit ..... Gear pump  
 Hydraulic motors:  
 Travel ..... 2 × Axial piston motor with parking brake  
 Swing ..... 1 × Axial piston motor  
 Relief valve setting:  
 Implement circuits ..... 325 kg/cm<sup>2</sup> **4,620 PSI/31.9 MPa**  
 Travel circuit ..... 340 kg/cm<sup>2</sup> **4,830 PSI/33.3 MPa**  
 Swing circuit ..... 275 kg/cm<sup>2</sup> **3,910 PSI/27.0 MPa**  
 Pilot circuit ..... 30 kg/cm<sup>2</sup> **430 PSI/ 2.9 MPa**  
 Service valve ..... Installed  
 Hydraulic cylinders:  
 No. of cylinders—bore × stroke:  
 Boom ..... 2—120 mm × 1285 mm **4.7" × 50.6"**  
 Arm ..... 1—135 mm × 1490 mm **5.3" × 58.7"**  
 Bucket ..... 1—115 mm × 1120 mm **4.5" × 44.1"**



## SWING SYSTEM

Driven by ..... Hydraulic motor  
 Swing reduction ..... Planetary and helical  
 gear reduction  
 Swing circle lubrication ..... Grease-bathed  
 Swing lock ..... Oil disc brake  
 Swing speed ..... 13.0 RPM



## DRIVES & BRAKES

Steering control ..... Two levers with pedals  
 Drive method ..... Fully hydrostatic type  
 Drive motor ..... Axial piston motor, in-shoe design  
 Reduction system ..... Planetary double reduction  
 Max. drawbar pull ..... 17700 kg **39,020 lb/173.5 kN**  
 Max. travel speed (High) ..... 5.5 km/h **3.4 MPH**  
 Max. travel speed (Low) ..... 3.2 km/h **2.0 MPH**  
 Service brake ..... Hydraulic lock type  
 Parking brake ..... Oil disc brake



## UNDERCARRIAGE

Center frame ..... X-frame  
 Track frame ..... Box-section type  
 Seal of track ..... Sealed track  
 Track adjuster ..... Hydraulic type  
 No. of shoes ..... 45 each side (PC200)  
 49 each side (PC200LC)  
 No. of carrier rollers ..... 2 each side  
 No. of track rollers ..... 7 each side (PC200)  
 9 each side (PC200LC)



## COOLANT & LUBRICANT CAPACITY (refilling)

Fuel tank ..... 310 ltr. **81.9 U.S. gal**  
 Radiator ..... 16 ltr. **4.1 U.S. gal**  
 Engine ..... 18 ltr. **4.6 U.S. gal**  
 Final drive, each side ..... 8 ltr. **2.0 U.S. gal**  
 Swing drive ..... 9 ltr. **2.5 U.S. gal**  
 Hydraulic tank ..... 170 ltr. **44.9 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 m<sup>3</sup> **1.05 cu.yd** backhoe bucket, operator, lubricant, coolant and full fuel tank and the standard equipment.

Triple-grouser shoes	PC200-5		PC200LC-5	
	Operating weight	Ground pressure	Operating weight	Ground pressure
600 mm 24"	18930 kg 41,730 lb	0.44 kg/cm <sup>2</sup> 6.37 PSI/43.9 kPa	19456 kg 42,890 lb	0.41 kg/cm <sup>2</sup> 5.91 PSI/40.7 kPa
500 mm 20"	18646 kg 41,110 lb	0.52 kg/cm <sup>2</sup> 7.52 PSI/51.9 kPa	—	—
700 mm 28"	19439 kg 42,860 lb	0.39 kg/cm <sup>2</sup> 5.60 PSI/38.6 kPa	19730 kg 43,500 lb	0.36 kg/cm <sup>2</sup> 5.13 PSI/35.4 kPa
800 mm 31"	19439 kg 42,860 lb	0.34 kg/cm <sup>2</sup> 4.90 PSI/33.8 kPa	20009 kg 44,110 lb	0.32 kg/cm <sup>2</sup> 4.55 PSI/31.4 kPa
900 mm 35"	19695 kg 43,420 lb	0.31 kg/cm <sup>2</sup> 4.41 PSI/30.4 kPa	40289 kg 44,730 lb	0.28 kg/cm <sup>2</sup> 4.11 PSI/28.3 kPa

## Standard Equipment

- 24 V/5.5 kW electric starting motor
- 25 A alternator
- 12 V/110 Ah × 2 batteries
- Dry-type air cleaner
- PPC hydraulic control
- EOLSS and PEMC system
- Boom holding valve
- Auto-decel
- Power maximizing system
- Power mode selection system
- Working mode selection system
- Engine overheat prevention system
- Automatic engine warm-up system
- Automatic de-airation system for fuel line
- 600 mm **24"** triple-grouser shoes (PC200)
- 700 mm **27.6"** triple-grouser shoes (PC200LC)
- Track guiding guards (center section)
- Hydraulic track adjusters
- 3350 kg **7,387 lb** counter weight
- Suction fan
- Radiator & oil cooler with dustproof net
- Electric horn
- Front light (1)
- Rearview mirror (RH)
- Vandalism protection locks
- EMACC
- All-weather steel cab (with tinted safety glass windows, pull-up type front window with lock device, removable lower windshield, lockable door, floor mat, intermittent window wiper, adjustable seat with armrest, cigarette lighter and ashtray)

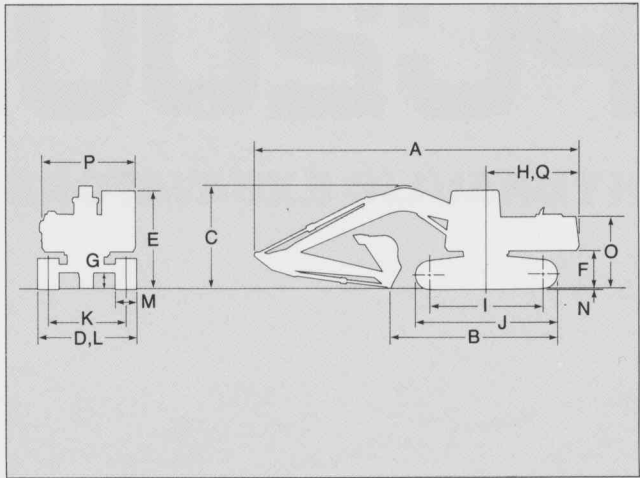


## DIMENSIONS

\*Extension arm

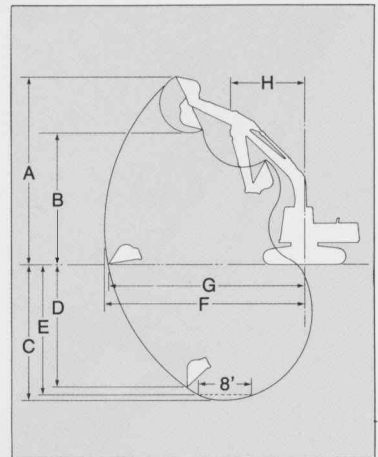
			1.80 m <b>5'11"</b> arm	2.40 m <b>7'10"</b> arm	2.93 m <b>9'7"</b> arm	*4.06 m <b>13'4"</b> arm
A	Overall length		9390 mm <b>30'10"</b>	9435 mm <b>30'11"</b>	9380 mm <b>30'9"</b>	9380 mm <b>30'9"</b>
B	Length on ground (transport)	PC200	6285 mm <b>20'7"</b>	5715 mm <b>18'9"</b>	4870 mm <b>16'</b>	4120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

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



## WORKING RANGE

		1.80 m <b>5'11"</b> arm	2.40 m <b>7'10"</b> arm	2.93 m <b>9'7"</b> arm	4.06 m <b>13'4"</b> arm
A	Max. digging height	8895 mm <b>29'2"</b>	9050 mm <b>29'8"</b>	9280 mm <b>30'5"</b>	9700 mm <b>31'10"</b>
B	Max. dumping height	6065 mm <b>19'11"</b>	6255 mm <b>20'6"</b>	6460 mm <b>21'2"</b>	6970 mm <b>22'10"</b>
C	Max. digging depth	5535 mm <b>18'2"</b>	6095 mm <b>20'</b>	6620 mm <b>21'9"</b>	7725 mm <b>25'4"</b>
D	Max. vertical wall digging depth	4965 mm <b>16'3"</b>	5315 mm <b>17'5"</b>	5980 mm <b>19'7"</b>	7075 mm <b>23'3"</b>
E	Max. digging depth of cut for 8° level	5160 mm <b>16'11"</b>	5840 mm <b>19'2"</b>	6435 mm <b>21'1"</b>	7590 mm <b>24'11"</b>
F	Max. digging reach	8915 mm <b>29'3"</b>	9395 mm <b>30'10"</b>	9875 mm <b>32'5"</b>	10880 mm <b>35'8"</b>
G	Max. digging reach at ground	8720 mm <b>28'7"</b>	9205 mm <b>30'2"</b>	9700 mm <b>31'10"</b>	10705 mm <b>35'1"</b>
H	Min. swing radius	3640 mm <b>11'11"</b>	3710 mm <b>12'2"</b>	3630 mm <b>11'11"</b>	3630 mm <b>11'11"</b>
Bucket digging force		14200 kg <b>31,310 lb/139 kN</b>	12500 kg <b>27,560 lb/122 kN</b>	12500 kg <b>27,560 lb/122 kN</b>	12500 kg <b>27,560 lb/122 kN</b>
Arm crowd force		12600 kg <b>27,780 lb/123 kN</b>	11200 kg <b>24,690 lb/110 kN</b>	10000 kg <b>22,050 lb/ 98 kN</b>	7890 kg <b>17,390 lb/ 77 kN</b>



## ATTACHMENTS

Backhoe bucket and arm combination

Bucket capacity (heaped)		Width		Weight (with side cutters)	No. of teeth	Arm			
SAE, PCSA	CECE	Without side cutters	With side cutters			1.80 m <b>5'11"</b>	2.40 m <b>7'10"</b>	2.93 m <b>9'7"</b>	4.06 m <b>13'4"</b>
0.36 m <sup>3</sup> <b>0.47 cu.yd</b>	0.33 m <sup>3</sup> <b>0.43 cu.yd</b>	560 mm <b>22"</b>	665 mm <b>26.2"</b>	454 kg <b>1,000 lb</b>	3	○	○	○	○
0.50 m <sup>3</sup> <b>0.65 cu.yd</b>	0.45 m <sup>3</sup> <b>0.59 cu.yd</b>	750 mm <b>29.5"</b>	855 mm <b>33.7"</b>	478 kg <b>1,050 lb</b>	3	○	○	○	○
0.80 m <sup>3</sup> <b>1.05 cu.yd</b>	0.70 m <sup>3</sup> <b>0.92 cu.yd</b>	1045 mm <b>41.1"</b>	1150 mm <b>45.3"</b>	645 kg <b>1,420 lb</b>	5	○	○	○	×
0.93 m <sup>3</sup> <b>1.22 cu.yd</b>	0.80 m <sup>3</sup> <b>1.05 cu.yd</b>	1200 mm <b>47.2"</b>	1305 mm <b>51.4"</b>	696 kg <b>1,530 lb</b>	5	○	□	△	×
1.05 m <sup>3</sup> <b>1.37 cu.yd</b>	0.90 m <sup>3</sup> <b>1.12 cu.yd</b>	1330 mm <b>52.4"</b>	1435 mm <b>48"</b>	757 kg <b>1,670 lb</b>	6	○	□	×	×
1.17 m <sup>3</sup> <b>1.53 cu.yd</b>	1.00 m <sup>3</sup> <b>1.31 cu.yd</b>	1450 mm <b>57.1"</b>	—	—	6	○	□	×	×

\*These charts are based on over-side stability with fully loaded bucket at maximum reach.

○ Material weight up to 1.8 t/m<sup>3</sup> **1.52 U.S. ton/cu.yd**  
 □ Material weight up to 1.5 t/m<sup>3</sup> **1.26 U.S. ton/cu.yd**  
 △ Material weight up to 1.2 t/m<sup>3</sup> **1.01 U.S. ton/cu.yd**  
 × Not usable

**Trapezoidal bucket** is ideal for digging ditches and for drainage works.

Capacity (JIS heaped): 0.50 m<sup>3</sup> **0.65 cu.yd**

**Slope finishing bucket** for scraping slopes or banks.

Capacity (JIS heaped): 0.35 m<sup>3</sup> **0.46 cu.yd**

Width: 2000 mm **78.7"**

**Ripper bucket** for hard, rocky ground.

Capacity (JIS heaped): 0.56 m<sup>3</sup> **0.73 cu.yd**

Width: 990 mm **39"**

**Clamshell bucket** is recommended for vertical digging.

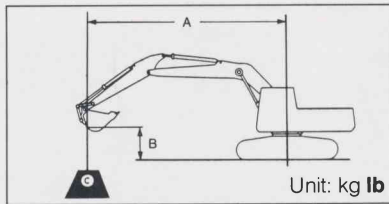
Capacity (JIS heaped): 0.60 m<sup>3</sup> **0.78 cu.yd**

**Single-shank ripper** and **three-shank ripper** are recommended for rock-digging and crushing, hard-soil digging, pavement-removal work, etc.

## Other options

- Air conditioner
- Cooler for cab
- Heater
- Fuel supply pump
- FOPS guard
- Headguard
- Track frame underguard
- Track roller guard (full length)
- In-line filter
- AM radio
- Rearview mirror (LH)
- Suspension seat
- Seat belt for suspension seat
- Warning lights for swing
- Windshield washer
- Tool kit
- First service spare parts

## LIFTING CAPACITY



- A: Reach from swing center  
 B: Bucket hook height  
 C: Lifting capacity

- Cf: Rating over front  
 Cs: Rating over side  
 ⊗: Rating at maximum reach

### PC200-5

Unit: kg lb

Arm length	A B	⊗ MAX.		7.6 m 25'		6.1 m 20'		4.6 m 15'		3.0 m 10'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
2.93 m 9'7"	6.1 m 20'	*2,350 5,200	*2,350 5,200								
	4.6 m 15'	*2,350 5,200	2,100 4,600	*3,550 7,800	2,400 5,300	*3,650 8,050	3,550 7,800				
	3.0 m 10'	*2,450 5,400	1,850 4,100	3,600 7,950	2,300 5,000	*4,500 9,900	3,300 7,350	*5,600 12,400	5,250 11,500	*9,150 20,200	*9,150 20,200
	1.5 m 5'	*2,700 5,950	1,750 3,850	3,500 7,700	2,150 4,750	5,000 11,000	3,100 6,850	*7,250 16,000	4,750 10,500	*5,000 11,000	*5,000 11,000
	0	2,900 6,450	1,800 3,900	3,400 7,550	2,100 4,600	4,800 10,600	2,950 6,450	7,500 16,500	4,500 9,900	*5,900 13,100	*5,900 13,100
	-1.5 m -5'	3,150 6,950	1,950 4,300	3,350 7,400	2,050 4,500	4,700 10,300	2,850 6,300	7,400 16,300	4,350 9,600	*8,800 19,400	8,750 19,300
	-3.0 m -10'	3,750 8,350	2,300 5,100			4,700 10,400	2,850 6,300	7,400 16,300	4,400 9,700	*13,100 28,900	8,900 19,600
	-4.6 m -15'	5,500 12,100	3,350 7,400					*7,600 16,700	4,550 10,000	*11,300 24,900	9,200 20,300
	1.80 m 5'11"	0	3,600 7,940	2,200 4,850			4,800 10,580	2,950 6,500	7,500 16,530	4,400 9,700	
2.40 m 7'10"	0	3,200 7,050	1,950 4,300	3,450 7,610	2,050 4,520	4,750 10,470	2,950 6,500	7,500 16,530	4,400 9,700	*4,750 10,470	*4,750 10,470

### PC200LC-5

Arm length	A B	⊗ MAX.		7.6 m 25'		6.1 m 20'		4.6 m 15'		3.0 m 10'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
2.93 m 9'7"	6.1 m 20'	*2,350 5,200	*2,350 5,200								
	4.6 m 15'	*2,350 5,200	*2,350 5,200	*3,550 7,800	2,800 6,150	*3,650 8,050	*3,650 8,050				
	3.0 m 10'	*2,450 5,400	2,200 4,900	*4,000 8,750	2,700 6,000	*4,500 9,900	3,950 8,650	*5,600 12,400	*5,600 12,400	*9,150 20,200	*9,150 20,200
	1.5 m 5'	*2,700 5,950	2,100 4,650	4,400 9,700	2,600 5,750	*5,300 11,700	3,650 8,050	*7,250 16,000	5,650 12,500	*4,900 10,800	*4,900 10,800
	0	*3,100 6,950	2,150 4,700	4,300 9,500	2,500 5,500	*6,000 13,300	3,500 7,750	*8,350 18,400	5,350 11,800	*5,900 13,100	*5,900 13,100
	-1.5 m -5'	*3,850 8,500	2,350 5,200	4,250 9,350	2,450 5,400	6,000 13,300	3,400 7,500	*8,800 19,400	5,250 11,500	*8,800 19,400	*8,800 19,400
	-3.0 m -10'	4,750 10,500	2,800 6,100			5,950 13,200	3,450 7,650	*8,700 19,200	5,300 11,600	*13,100 28,900	10,900 24,100
	-4.6 m -15'	*5,900 13,000	4,000 8,800					*7,600 16,700	5,450 12,000	*11,300 24,900	11,200 24,700
	1.80 m 5'11"	0	4,500 9,920	2,700 5,950			6,050 13,340	3,550 7,830	*8,900 19,620	5,350 11,790	
2.40 m 7'10"	0	4,000 8,820	2,350 5,180	4,300 9,480	2,550 5,620	6,050 13,340	3,500 7,720	*8,600 18,960	5,350 11,790	*4,750 10,470	*4,750 10,470

\* 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. 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 subject to change without notice.



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