

# Komatsu PC170LC-10

## Specifications

### ENGINE

Model .....	Komatsu SAA4D107E-2A
Type .....	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed .....	2.100 rpm
ISO 14396 .....	90 kW / 121 HP
ISO 9249 (net engine power) .....	85,7 kW / 115 HP
No. of cylinders .....	4
Bore x stroke .....	107 x 124 mm
Displacement .....	4,46 ltr
Battery .....	2 x 12 V/120 Ah
Alternator .....	24 V/60 A
Starter motor .....	24 V/4,5 kW
Air filter type .....	Double element type with monitor panel dust indicator and auto dust evacuator
Cooling .....	Suction type cooling fan with radiator fly screen

### HYDRAULIC SYSTEM

Type .....	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Main pump .....	Variable-capacity piston pump
Pumps for .....	Boom, arm, bucket, swing, and travel circuits
Maximum pump flow .....	298 ltr/min
Relief valve settings	
Implement .....	380 kg/cm <sup>2</sup>
Travel .....	380 kg/cm <sup>2</sup>
Swing .....	295 kg/cm <sup>2</sup>
Pilot circuit .....	33 kg/cm <sup>2</sup>

### UNDERCARRIAGE

Construction .....	X-frame centre section with box section track frames
Track assembly	
Type .....	Fully sealed
Shoes (each side) .....	44
Tension .....	Combined spring and hydraulic unit
Rollers	
Track rollers (each side) .....	7
Carrier rollers (each side) .....	2

### OPERATING WEIGHT (APPR.)

	Mono boom	
	Operating weight	Ground pressure
Triple grouser shoes		
500 mm	17.280 kg	0,50 kg/cm <sup>2</sup>
600 mm	17.500 kg	0,42 kg/cm <sup>2</sup>
700 mm	17.720 kg	0,37 kg/cm <sup>2</sup>
800 mm	17.940 kg	0,33 kg/cm <sup>2</sup>

Operating weight, including specified work equipment, 2,6 m arm, 0,65 m<sup>3</sup> bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

### SWING SYSTEM

Type .....	Axial piston motor driving through planetary double reduction gearbox
Swing lock .....	Electrically actuated wet multi-disc brake integrated into swing motor
Swing speed .....	0 - 12 rpm
Swing torque .....	45 kNm
Max. pressure .....	295 kg/cm <sup>2</sup>

### DRIVES AND BRAKES

Steering control .....	2 levers with pedals giving full independent control of each track
Drive method .....	Hydrostatic
Gradeability .....	70%, 35°
Max. travel speeds	
Lo / Hi .....	3,0 / 5,5 km/h
Maximum drawbar pull .....	15.950 kg

### SERVICE REFILL CAPACITIES

Fuel tank .....	300 ltr
Radiator .....	23,5 ltr
Engine oil .....	18,0 ltr
Swing drive .....	4,5 ltr
Hydraulic tank .....	121 ltr
Final drive (each side) .....	5,4 ltr

### ENVIRONMENT

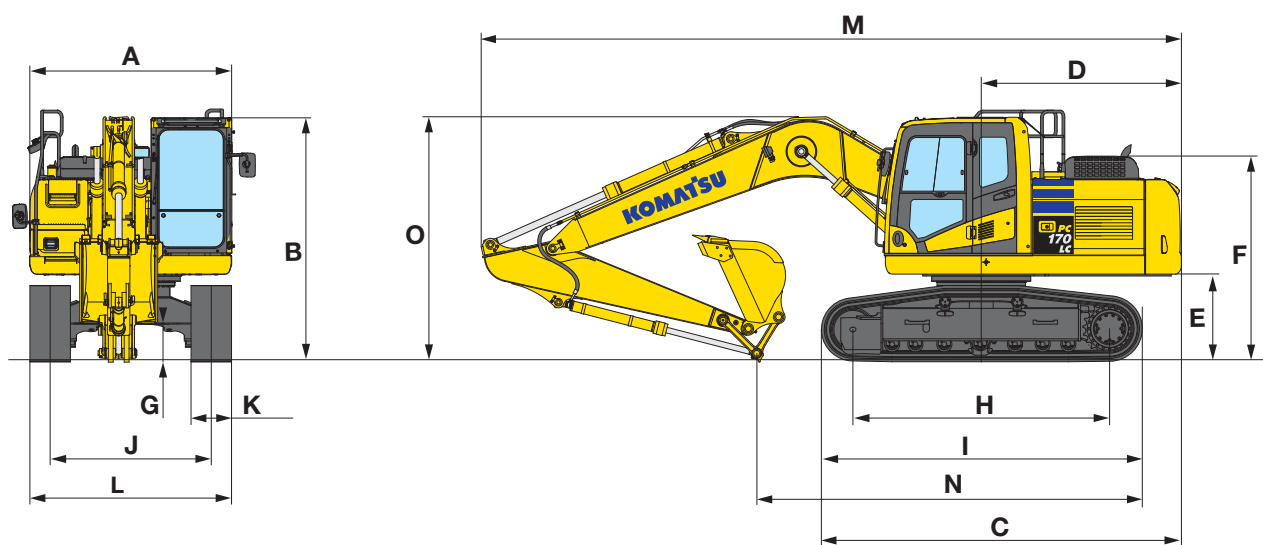
Engine emissions .....	Fully complies with EU Stage IIIB and EPA Tier 4 interim exhaust emission regulations
Noise levels	
LwA external .....	101 dB(A) (2000/14/EC Stage II)
LpA operator ear .....	68 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)*	
Hand/arm .....	≤ 2,5 m/s <sup>2</sup> (uncertainty K = 0,48 m/s <sup>2</sup> )
Body .....	≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,23 m/s <sup>2</sup> )

\* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

# Dimensions & Performance Figures

## MACHINE DIMENSIONS

A	Overall width of upper structure	2.490 mm
B	Overall height of cab	3.035 mm
C	Overall length of basic machine	3.110 mm
D	Tail length	2.470 mm
	Tail swing radius	2.500 mm
E	Clearance under counterweight	1.055 mm
F	Machine tail height	2.515 mm
G	Ground clearance	440 mm
H	Tumbler centre distance	3.170 mm
I	Track length	3.965 mm
J	Track gauge	1.990 mm
K	Track shoe width	500, 600, 700, 800 mm
L	Overall track width with 500 mm shoes	2.490 mm
	Overall track width with 600 mm shoes	2.590 mm
	Overall track width with 700 mm shoes	2.690 mm
	Overall track width with 800 mm shoes	2.790 mm



## TRANSPORT DIMENSIONS

		Mono boom		
		2,25 m	2,6 m	2,9 m
M	Transport length	8.645 mm	8.645 mm	8.645 mm
N	Length on ground (transport)	5.130 mm	4.760 mm	4.565 mm
O	Overall height (to top of boom)	3.030 mm	3.040 mm	3.140 mm



## MAX. BUCKET CAPACITY AND WEIGHT

Arm length	Mono boom					
	2,25 m		2,6 m		2,9 m	
Material weight up to 1,2 t/m <sup>3</sup>	0,94 m <sup>3</sup>	615 kg	0,94 m <sup>3</sup>	615 kg	0,75 m <sup>3</sup>	530 kg
Material weight up to 1,5 t/m <sup>3</sup>	0,75 m <sup>3</sup>	530 kg	0,75 m <sup>3</sup>	530 kg	0,75 m <sup>3</sup>	530 kg
Material weight up to 1,8 t/m <sup>3</sup>	0,66 m <sup>3</sup>	495 kg	0,66 m <sup>3</sup>	495 kg	0,66 m <sup>3</sup>	495 kg

Max. capacity and weight have been calculated according to ISO 10567:2007.

Please consult with your distributor for the correct selection of buckets and attachments to suit the application.

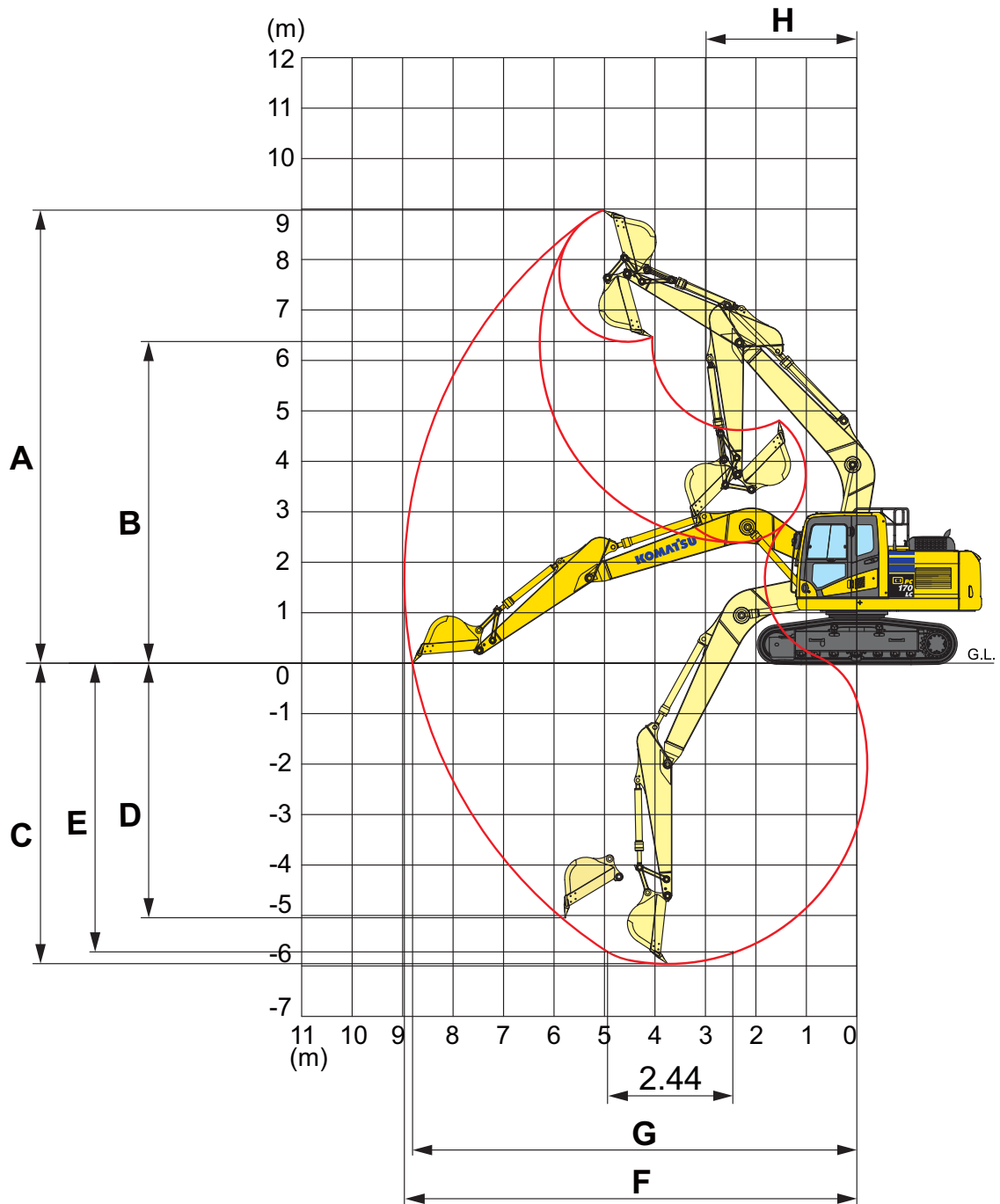
## BUCKET AND ARM FORCE

Arm length	2,25 m	2,6 m	2,9 m
Bucket digging force	11.100 kg	11.100 kg	11.100 kg
Bucket digging force at PowerMax	12.500 kg	12.500 kg	12.500 kg
Arm crowd force	9.300 kg	8.500 kg	7.900 kg
Arm crowd force at PowerMax	9.700 kg	8.800 kg	8.100 kg



# Working Range











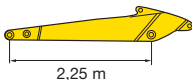
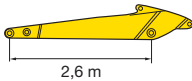
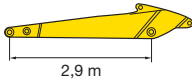
## MONO BOOM

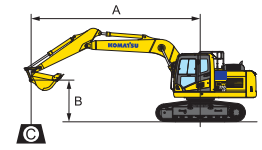


ARM LENGTH	2,25 m	2,6 m	2,9 m
A Max. digging height	8.910 mm	8.980 mm	9.130 mm
B Max. dumping height	6.280 mm	6.370 mm	6.525 mm
C Max. digging depth	5.610 mm	5.960 mm	6.250 mm
D Max. vertical wall digging depth	4.860 mm	5.040 mm	5.320 mm
E Max. digging depth of cut for 2,44 m level	5.375 mm	5.740 mm	6.050 mm
F Max. digging reach	8.680 mm	8.960 mm	9.235 mm
G Max. digging reach at ground level	8.510 mm	8.800 mm	9.075 mm
H Min. swing radius	3.040 mm	2.990 mm	2.995 mm

# Lifting Capacity

## MONO BOOM

Arm length	A		7,5 m		6,0 m		4,5 m		3,0 m		1,5 m			
	B													
 2,25 m	6,0 m	kg	*2.600	*2.600		*3.050	3.050							
	4,5 m	kg	*2.550	2.300		*4.450	3.000	*5.000	4.900					
	3,0 m	kg	*2.600	2.000	*2.600	1.950	4.700	2.850	*6.400	4.550	*9.900	8.450		
	1,5 m	kg	*2.900	1.850	3.150	1.850	4.550	2.700	7.250	4.200				
	0,0 m	kg	3.250	1.900	3.100	1.800	4.400	2.600	7.000	4.000	*6.800	*6.800		
	- 1,5 m	kg	3.600	2.100			4.350	2.550	6.900	3.950	*9.600	7.600	*6.450	*6.450
	- 3,0 m	kg	4.600	2.700			4.400	2.600	6.950	4.000	*10.350	7.750	*9.600	*9.600
	- 4,5 m	kg	*4.800	4.700							*7.000	*7.000		
 2,6 m	6,0 m	kg	*2.150	*2.150		*3.350	3.100							
	4,5 m	kg	*2.100	*2.100		*4.200	3.050							
	3,0 m	kg	*2.200	1.850	3.250	1.950	4.750	2.900	*6.000	4.600	*8.700	*8.700		
	1,5 m	kg	*2.400	1.750	3.150	1.850	4.550	2.750	7.300	4.250	*7.550	*7.550		
	0,0 m	kg	*2.850	1.750	3.100	1.800	4.400	2.600	7.000	4.000	*7.350	*5.350		
	- 1,5 m	kg	3.350	1.950			4.350	2.550	6.900	3.900	*9.400	7.500	*4.600	*4.600
	- 3,0 m	kg	4.150	2.450			4.350	2.550	6.950	3.950	*11.050	7.650	*8.800	*8.800
	- 4,5 m	kg	*5.000	3.900					*5.500	4.100	*8.100	*7.850		
 2,9 m	6,0 m	kg	*1.850	*1.850		*3.300	3.100							
	4,5 m	kg	*1.800	*1.800	*2.200	2.000	*3.900	3.050						
	3,0 m	kg	*1.900	1.700	3.250	1.950	*4.550	2.900	*5.600	4.650	*8.350	*8.350		
	1,5 m	kg	*2.050	1.600	3.150	1.850	4.550	2.700	7.150	4.250	*7.700	*7.700		
	0,0 m	kg	*2.400	1.650	3.050	1.750	4.350	2.550	7.000	4.000	*6.000	*6.000		
	- 1,5 m	kg	*3.000	1.800	3.050	1.750	4.300	2.500	6.800	3.850	*8.950	7.400	*4.400	*4.400
	- 3,0 m	kg	3.750	2.200			4.300	2.500	6.850	3.850	*11.400	7.500	*9.250	*9.250
	- 4,5 m	kg	*4.900	3.300					*6.050	4.000	*8.850	7.750		



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket (495 kg), bucket linkage and bucket cylinder

 – Rating over front











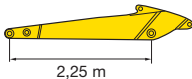
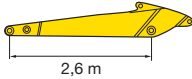
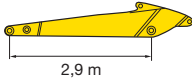
 – Rating over side

 – Rating at maximum reach

With 500 mm shoes

When removing bucket, linkage or cylinder, lifting capacities can be increased by their respective weights

## MONO BOOM (WITH ADDITIONAL COUNTERWEIGHT)

Arm length	A		7,5 m		6,0 m		4,5 m		3,0 m		1,5 m			
	B													
 2,25 m	6,0 m	kg	*2.600	*2.600		*3.050	*3.050							
	4,5 m	kg	*2.550	2.500		*4.450	3.250	*5.000	*5.000					
	3,0 m	kg	*2.600	2.150	*2.600	2.100	*5.000	3.100	*6.400	4.900	*9.900	9.100		
	1,5 m	kg	*2.900	2.050	3.400	2.050	4.850	2.950	7.650	4.550				
	0,0 m	kg	*3.350	2.100	*3.200	2.000	4.700	2.850	7.450	4.350	*6.800	*6.800		
	- 1,5 m	kg	3.900	2.350			4.650	2.800	7.400	4.300	*9.600	8.200	*6.450	*6.450
	- 3,0 m	kg	4.950	2.950			4.750	2.850	7.300	4.350	*10.350	8.350	*9.600	*9.600
	- 4,5 m	kg	*4.800	*4.800							*7.000	*7.000		
 2,6 m	6,0 m	kg	*2.150	*2.150		*3.350	*3.350							
	4,5 m	kg	*2.100	*2.100		*4.200	3.300							
	3,0 m	kg	*2.200	2.050	*3.400	2.150	*4.750	3.150	*6.000	4.950	*8.700	*8.700		
	1,5 m	kg	*2.400	1.950	3.400	2.050	4.850	2.950	*7.500	4.600	*7.550	*7.550		
	0,0 m	kg	*2.850	1.950	3.350	2.000	4.750	2.850	7.500	4.350	*5.350	*5.350		
	- 1,5 m	kg	3.600	2.150			4.650	2.800	7.350	4.250	*9.400	8.150	*4.600	*4.600
	- 3,0 m	kg	4.450	2.700			4.700	2.800	7.400	4.300	*11.050	8.300	*8.800	*8.800
	- 4,5 m	kg	*5.000	4.250					*5.500	4.450	*8.100	*8.100		
 2,9 m	6,0 m	kg	*1.850	*1.850		*3.300	*3.300							
	4,5 m	kg	*1.800	*1.800	*2.200	2.200	*3.900	3.300						
	3,0 m	kg	*1.900	1.900	3.450	2.100	*4.550	3.150	*5.600	5.000	*8.350	*8.350		
	1,5 m	kg	*2.050	1.800	3.400	2.050	4.850	2.950	*7.150	4.600	*7.700	*7.700		
	0,0 m	kg	*2.400	1.800	3.300	1.950	4.700	2.800	7.450	4.350	*6.000	*6.000		
	- 1,5 m	kg	*3.000	2.000	3.250	1.950	4.600	2.700	7.300	4.200	*8.950	8.000	*4.400	*4.400
	- 3,0 m	kg	4.450	2.400			4.600	2.750	7.300	4.200	*11.400	8.150	*9.250	*9.250
	- 4,5 m	kg	*4.900	3.600					*6.050	4.350	*8.850	*8.300		

\* 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.