# **CRAWLER EXCAVATOR SERIES PC600-6**



The machine shown may vary according to territory specifications

The PC600-6 is a state of the art European made excavator, setting new standards for cycle times, operator comfort, ease of service and safety.

# PC600-6

FLUWHEEL HORSEPOWER: 286 kW (384 HP) at 1800 rpm

BUCKET CAPACITIES:  $1.8 \sim 3.5 \, \text{m}^3 \, \text{SAE}$ 

OPERATING WEIGHT:  $56,780 \text{ kg} \sim 59,520 \text{ kg}$ 

# **CONTROL SYSTEM**

Komatsu was the first to introduce computer control into excavators. The latest control system used by the PC600-6 is sophisticated but easy to use.

# Clock



immediately warned

automatically reduces

# **Travel speed**

2-speed fully automatic travel. Automatically changes from High to low when travelling up steep slopes and can be locked in to low for safe descents and manoeuvring.

# **SPECIFICATIONS**

	ENGINE
	Communs N14-C420
Type	Water-cooled, 4-cycle, direct-injection
	Turbocharged, aftercooled
No. of cyli	nders 6
Bore	140 mm
Stroke	152 mm
Piston dis	placement
Flywheel I	norsepower
(SAE J1	349) 2861 kW (384 HP) at 1800 RPM
Governor	All-speed control, mechanical
Meets 199	96 EPA emission standards.
Starting m	otor 8.9 kW
Battery	170 Ah

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	HYDRAULIC SYSTEMS
117	
	OLSS (Open-center Load Sensing System
	ectable working modes
Main pum	•
Type	
Pumps	for Boom, arm, bucket, swing and travel circuit
Maximu	ım flow 2 x 410 ltr./min
Sub-pui	mp for control circuit Gear pump
Hydraulic	motors:
Travel	2 x axial pistor
Swing	
Relief valv	ve setting:
Implem	ent circuits 325 kg/cm
Travel o	sircuit
Swing o	circuit
Heavy Ii	ift circuit
-	cuit 30 kg/cm
Hydraulic	cylinders:
Number	r of cylinders - bore x stroke x rod diameter:
	2 - 185 mm x 1725 mm x 120 mn
	1 - 200 mm x 2045 mm x 140 mn
Bucket	1 - 185 mm x 1425 mm x 120 mn



## **STEERING**

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



#### **SWING SYSTEM**

Driven by	Hydraustatic
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Service brake	Hydraulic lock
Parking brake	Mechanical brake
Swing lock	Used parking brake
Swing speed	8.3 min. 8.3 rpm



#### **DRIVES & BRAKES**

Steering controls	Two levers with pedals
Drive method	Hydraulic
Max. drawbar pull	42,300 kg
Gradeability	70%, 35°
Maximum travel speed: High	4.9 km/h
Low	3.0 km/h
Service brake	Hydraulic lock
Parking brake	Mechanical brake



## UNDERCARRIAGE

Center frame	H-frame
Track frame	Box-section
Seal of track	Sealed track
Track adjuster	Hydraulic
No. of shoes	98 each side (PC600-6)
	104 each side (PC600LC-6)
No. of carrier rollers	
No. of track rollers	9 each side (PC600LC-6)



### CAB

Sound-insulated all-weather steel cab, safety glass windows, pull-up front window, lockable door, window wiper, electric horn, cab lamp, adjustable reclining suspension seat, monitor system and gauges.

Dynamic low noise level Lpa 81

Lwa 111



## **COOLANT & LUBRICANT CAPACITY**

Fuel tank	880	ltr.
Coolant	57	ltr.
Engine	43.5	ltr.
Final drive, each side	10	ltr.
Swing drive	13.1	ltr.
Hydraulic tank	370	ltr

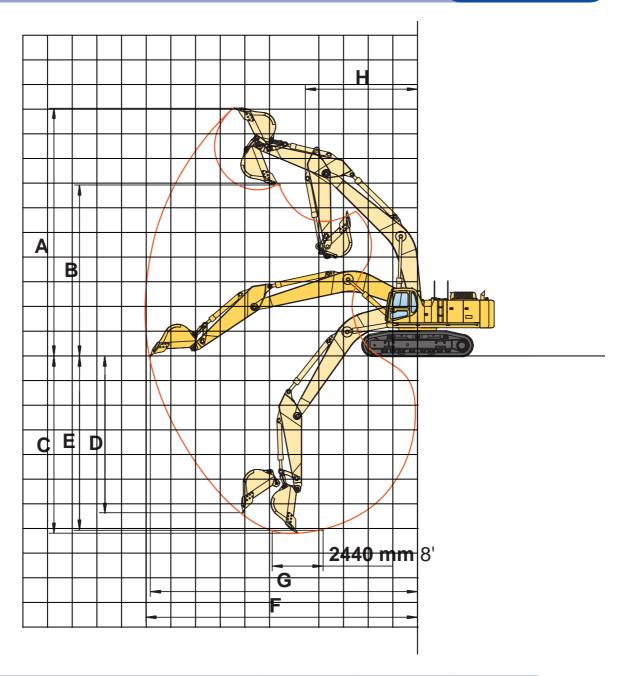


# **OPERATING WEIGHT**

Operating weight including 7660 mm one-piece boom, 3500 mm arm, SAE heaped 2.7 m³ backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

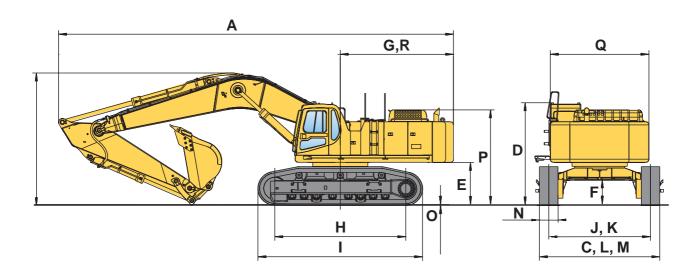
SHOES	PC60	00-6	PC600LC-6				
311013	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure			
610 mm	56780 kg	1.010 kg/cm <sup>2</sup>	57780 kg	960 kg/cm <sup>2</sup>			
750 mm	57605 kg	810 kg/cm <sup>2</sup>	58655 kg	780 kg/cm <sup>2</sup>			
900 mm			59520 kg	660 kg/cm <sup>2</sup>			

# **WORKING RANGES**



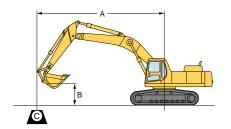
Arm leng	gth			
Во	oom	7600 mm	7300 mm	6600 mm
Arr	m	3500 mm	3500 mm	2900 mm
A Ma	ax. digging height	11880 mm	11475 mm	11050 mm
В Ма	ax. dumping height	7960 mm	7650 mm	7200 mm
C Ma	ax. digging depth	8490 mm	8165 mm	7000 mm
D Ma	ax. vertical wall digging depth	7510 mm	6660 mm	5540 mm
E Ma	ax. diggimg depth of cut for 2440 mm level	8360 mm	8030 mm	6850 mm
F Ma	ax. digging reach	13020 mm	12615 mm	11550 mm
G Ma	ax. diggimg reach at ground level	12800 mm	12385 mm	11260 mm
H Mii	in. swing radius	5370 mm	5090 mm	4735 mm
Bucket d	digging force	26900 kg	26900 kg	30100 kg
Bucket d	digging force at power max.	29100 kg	29100 kg	32400 kg
Arm crov	wd force	22600 kg	22600 kg	26500kg
Arm crov	wd force at power max.	24300 kg	24300 kg	28600 kg

# **MACHINE DIMENSIONS**



Вос	om	7660 mm	7300 mm	6600 mm
Arn	n	3500 mm	3500 mm	2900 mm
Α	Overall length	12810 mm	12440 mm	11930 mm
В	Overall height (to top of boom)	4300 mm	4280 mm	4500 mm
		PC600-6	PC600LC-6	
С	Overall width	3900 mm	3900 mm	
D	Overall height (to top of cab)	3310 mm	3310 mm	
Ε	Ground clearance, counterweight	1365 mm	1365 mm	
F	Ground clearance (minimum)	780 mm	780 mm	
G	Tail swing radius	3800 mm	3800 mm	
Н	Track length on ground	4250 mm	4600 mm	
I	Track length	5340 mm	5690 mm	
J	Track gauge	2590 mm	2590 mm	
K	Track gauge when expanded	3300 mm	3300 mm	
L	Width of crawler	3190 mm	3190 mm	
M	Width of crawler whern expanded	3900 mm	3900 mm	
N	Shoe width	600 mm	600mm	
0	Grouser height	37 mm	37 mm	
Р	Machine cab height	3070 mm	3070 mm	
Q	Machine cab width	3195 mm	3195 mm	
R	Distance, swing center to rear end	3675 mm	3675 mm	

# **LIFTING CAPACITIES**



A - Reach from swing centerline

B - Bucket hook height

C - Lifting capacities

Rating over front

□ - Rating over side or 360 degrees

- Rating at maximum reach

	A	•	3	9.0	) m	7.5	5 m	6.0	0 m	4.	5 m	3.0	0 m
Arm length	R	걦	<b>Ľ</b> ≫	μ		Į,		r <sup>T</sup> T	<b>Ç</b> ⇒	r <sup>T</sup> T	<b>Ç</b> ⇒	Į,	<b>□</b> ⇒

#### **HEAVY LIFT "OFF"**

With 600 mm shoe bkt 2.7 m <sup>3</sup>	6.0 m	kg	*7900	7250	*10150	8950	*11450	*11450						
Boom 7660 mm	3.0 m	kg	8150	6050	11000	8300	*14000	11400	*18200	16350				
	0.0 m	kg	8200	6050	10350	7700	13500	9950	*20100	14800	*14500	*14500		
2900 mm	-3.0 m	kg	10150	7550	10350	7650	13500	9950	*18100	14800	*23150	*23150	*20950	*20950

## **HEAVY LIFT "ON"**

With 600 mm shoe bkt 2.7 m <sup>3</sup>	6.0 m	kg	*8750	7250	*11350	8950	*12750	12700						
Boom 7660 mm	3.0 m	kg	8150	6050	11000	8300	15050	11400	*20150	16350				
	0.0 m	kg	8200	6050	10350	7700	13500	9950	20200	14800	*15900	*15900		
2900 mm	-3.0 m	kg	10150	7550	10350	7650	13500	9950	20150	14800	*25750	24400	*22800	*22800

#### **HEAVY LIFT "OFF"**

With 600 mm shoe bkt 2.8 m <sup>3</sup>	6.0 m	kg	*7450	*7450	*10100	8650	*11300	*11300						
Boom 7300 mm	3.0 m	kg	*8550	6300	10850	8150	*13800	11400	*17200	15900	*23350	*23350		
00	0.0 m	kg	8700	6350	10300	7600	14100	10450	*20000	15050	*19500	*19500		
3600 mm	-3.0 m	kg	*10900	8150			*13750	10300	*17900	14950	*23300	*23300	*23850	*23850

#### **HEAVY LIFT "ON"**

With 600 mm shoe bkt 2.8 m <sup>3</sup>	6.0 m	kg	*8300	7700	*11350	8650	*12600	12600						
Boom 7300 mm	3.0 m	kg	8600	6300	10850	8150	15100	11400	*19150	15900	*25450	*25450		
	0.0 m	kg	8700	6350	10300	7600	14100	10450	20500	15050	*21300	*21300		
3600 mm	-3.0 m	kg	11050	8150			13950	10300	*19950	14850	*25900	24800	*25950	*25950

# **HEAVY LIFT "OFF"**

With 600 mm shoe bkt 3.5 m <sup>3</sup>	6.0 m	kg	*8300			*11700	*11700							
Boom 6600 mm	3.0 m	kg	*9300	7050	10850	8150	*13950	11550	*17650	17100	*24700	*24700		
	0.0 m	kg	9650	7100	10350	7650	14150	10550	*19000	13900	*28100	24650		
3600 mm	-3.0 m	kg	*11650	9350			*13200	10400	*16800	13850	*23750	*23750	*29900	*29900

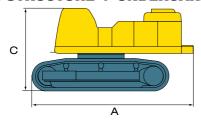
#### **HEAVY LIFT "ON"**

With 600 mm shoe bkt 3.5 m <sup>3</sup>	6.0 m	kg	*9200	8750			*13050	12600						
Boom 6600 mm	3.0 m	kg	9500	7050	10850	8150	15250	11550	*19550	17100	*27250	*27250		
	0.0 m	kg	9650	7100	10350	7650	14150	10550	19200	13900	*31100	24650		
3600 mm	-3.0 m	kg	12600	9350			14050	10400	*18850	13850	*26400	24800	*32450	*32450

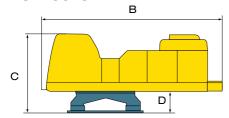
<sup>\*</sup> Load is limited by hydraulic capacity rather than tipping, Rratings are based on sae standard No. J1097. Rated loads do not exceed 87% of hydraulic loft capacity or 75% of tipping load.

# **DIMENSIONS**

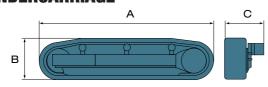
# **UPPER STRUCTURE + UNDERCARRIAGE**



# **UPPER STRUCTURE**



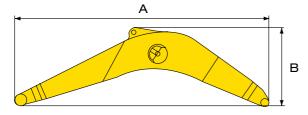
# **UNDERCARRIAGE**



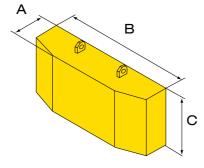
# **WORK EQUIPMENT**

## **B00M**

	Unit	STD.	OPT.
Α	Length	mm	mm
В	Height	mm	mm
	Overall width	mm	mm
	Weight	kg	kg



# **COUNTERWEIGHT**



# **CYLINDERS**

**BOOM** 

	Unit	STD. / OPT.	
A	Length	mm	
	Weight	kg ( kg x 2)	



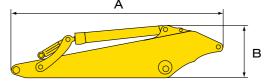
	Unit	STD. / OPT.
Α	Length	mm
В	Overall width	mm
С	Height	mm
	Weight	kg

	Unit	STD. / OPT.
Α	Overall width	mm
В	Length	mm
С	Total height	mm
D	Height to upperstructure	mm
	Weight	kg

	Unit	STD. / OPT.
	Quantity	
Α	Length	mm
В	Height	mm
С	Width	mm
	Weight	kg ( x 2)
		( x 2)

## **ARM**

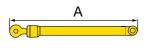
Unit	STD.	OPT.
Length	mm	mm
Height	mm	mm
Overall width	mm	mm
Weight	kg	kg
	Length Height Overall width	Length mm Height mm Overall width mm



	Unit	STD. / OPT.
Α	Width	mm
В	Length	mm
С	Height	mm
	Weight	kg

# ARM

	Unit	STD. / OPT.
Α	Length	mm
	Weight	kg ( kg x 2)



# CRAWLER EXCAVATOR SERIES PC600-6



Standard and optional equipment may vary. Consult your Komatsu dealer for more information.

#### Engine and its related Items:

- Air cleaner, double element dry
- Engine, Cummins N14-C420
- Fan guard structure

#### Electrical system:

- Alternator, 70 Ampere, 24V
- Batteries, 170 Ah/2 x 12V
- Starting motor, 8.9 kW x 1
- Working light, 2 (boom and RH)

  Underportinger

# Undercarriage:

- 600 mm 24" triple grouser
- 8/9-track (LC)/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

#### **Guards and Covers:**

- Dust-proof net for radiator and oil cooler
- Pump/engine room partition cover
- Revolving frame undercover

#### Operator environment:

 Viscous mount, all weather sound suppression with tinted safety glass windows, pull-up front window with lock device, roof window, lockable door, intermittent window wiper and washer, floormat, cigarette lighter, ashtray, storage box, window lattice (right)

- Inclined dashboard
- · Handrails for machine cab
- Instrument panel (angle adjustable) with electric display/monitor system with electrically-controlled throttle lever, electric service meter, gauges (coolant temp and fuel level), caution lights (electric charge, engine, oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check light (coolant, engine oil, and hydraulic oil level), selfdiagnostic system with trouble data memory
- Rearview mirrors (RH)
- Seat, fully adjustable with suspension

#### Hydraulic controls:

- Fully hydraulic, with Electronic Open Center Load Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- 1 gear pump for control circuit
- 2 axial piston motor for swing with single stage relief valve
- 1 axial piston motor per track for travel with counter balance valve
- 2 variable capacity piston pump

- $\bullet \;$  5+4 spools (boom, arm, bucket, swing, and travel)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler
- In-line filter

#### Drive and brake system:

- Brakes, hydraulic lock travel brakes, oil disc parking, and swing holding brake
- Hydrostatic, 2 travel speed system with planetary triple reduction final drive

# Other standard equipment:

- Automatic swing holding brake
- Corrosion resister
- Counterweight, 10750 kg 23,700 lb
- Horn, electric
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- Wide catwalk and large handrails
- Vandalism protection locks

# **OPTIONAL EQUIPMENT -**

- Air conditioner with defroster
- Arms 3500 mm arm assembly
  - 3500 mm HD arm assembly
  - 2900 mm arm assembly
- Batteries, 200 Ah / 2 x 12 V
- Boom 7600 mm - 7300 mm HD
  - 6600 mm SE

- Cab front full guard
- Grease gun, electric drive
- Heater with defroster
   Operator protective quality
- Operator protective guard (OPG)
- Rearview mirror (LH)
- Revolving frame undercover (HD)
- Seat belt

- Shoes − 750 mm
  - $-\,900~\text{mm}$  for LC only
- Track roller guards (full length)Track frame undercover
- Travel alarm
- Working lights (2 on cab)
- Straight boom

# KOMATSU

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