

CRAWLER EXCAVATOR SERIES PC380LC-6

KOMATSU



The machine shown may vary according to territory specifications

active

Designed and manufactured in Europe, for European preferences and needs, the PC380LC-6 delivers the ultimate balance of productivity, reliability, and operator comfort. Komatsu's on-board, patented HydraMind hydraulic system assists every operation with versatile machine performance criteria that's always perfectly matched to each task.

HYDRAULIC EXCAVATOR **PC380LC-6**

FLYWHEEL HORSEPOWER: 173 kW (232 HP) at 1750 rpm

BUCKET CAPACITIES: 1.12 ~ 2.54 m³ SAE

WEIGHT RANGE: UP TO 40000 kg

PRODUCTIVE AND FLEXIBLE

Like all Komatsu dash-6 excavators, the PC380LC-6 has power, speed and control to give exceptional productivity.

Engine power

The starting point for productivity is engine power. The turbo-charged engine not only delivers a huge 232 HP, it is also fuel efficient and meets all current emissions and noise standards. Fuel consumption and noise is further improved using the auto-deceleration system, which automatically reduces engine speed when the wrist control levers are in neutral after a few seconds.



Fast and powerful digging and or lifting power

Engine power, high pump output and the control of the HydrauMind hydraulic system all contribute to give an excavator with exceptionally fast and powerful digging forces and lifting power (for demolition operations).

EASY OPERATION

Working Mode Selection

Five working modes are designed to deliver optimal overall machine performance for heavy-duty, general, finishing, lifting and breaker operations. When selected, the mode governs the most efficient combination of engine speed, pump speed and system pressure for the task.

The G/O mode has proven to be exceptional as a general running mode, delivering substantial savings in fuel, based on a measure of tonnes excavated/litre of fuel.

Working Mode	Application	Advantage
H/O	for heavy operations such as hard digging and loading	<ul style="list-style-type: none"> • Maximum production and power • Fast cycle times • Power Max/Swift Slow Down modes available
G/O	for general operations with exceptional fuel economy	<ul style="list-style-type: none"> • Good cycle times • Exceptional fuel economy • Power Max/Swift Slow Down modes available
F/O	for finishing operations that require fine control with task-matched work equipment speeds	<ul style="list-style-type: none"> • Smooth finishing capability • Arm at half-speed
L/O	for precise, powerful lifting operations	<ul style="list-style-type: none"> • Increased, continuous relief pressure • Reduced speed • Fine precision control
B/O	for powerful breaker operations	<ul style="list-style-type: none"> • Optimal pressure and flow • Optimum engine rpms

Power Max/Swift Slow Down

Power Max can be selected by depressing a joystick button for an instant burst of power to help break through tough digging situations.

Swift Slow Down joystick activated to diminish all work equipment speeds to half, allowing finishing and delicate operations to be carried out with ultimate precision.

Selection	Application	Result
Power up	Tough Digging Operations	Increase implement force by 9% for 8.5 seconds
Speed down	Delicate Operations	Speed is reduced by 1/2. Increase implement force by 9% as long as joystick button is pressed.



Active mode

When productivity is the highest-level priority, the Active mode is the ideal supplement to the five working modes. It increases engine speed, pump flow, and boom-down speed, to increase productivity by up to 10% greater than operations in the H/O Heavy Duty working mode.

The new "Active" logo with the green "+" confirms that the machine has all of the popular Komatsu "Active" attributes, plus a generous new offering of on-board operator comforts for a better, more productive work environment.

active

OPERATOR COMFORT

All sources of operator fatigue have been carefully considered during the design process. The result is a cab offering unparalleled space and ergonomics, combined with exceptionally low vibration and noise.



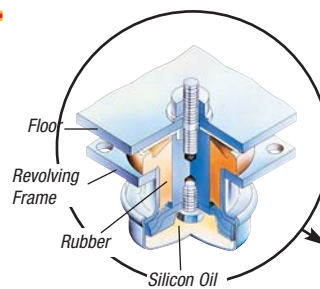
Outstanding operator space

The cab offers unparalleled space for the operator, with generous leg and headroom as well as a large space to store personal belongings behind the seat. The multi-adjustable seat and controls can be set to create the ideal individual working position for any operator.



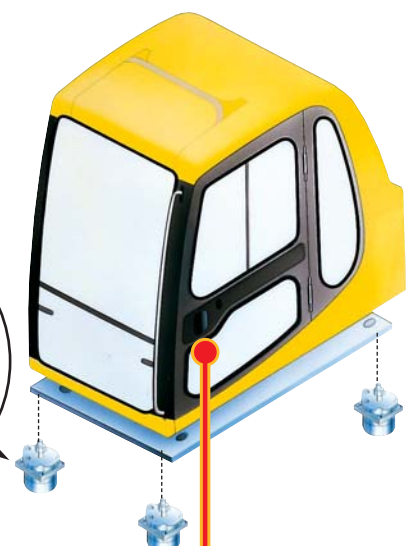
Superb visibility

Plexiglas roof with sun visor. The optional new plexiglas roof with sun visor gives the operator a better view of overhead obstacles and machine operations. It also allows more natural light to illuminate the cab's interior.



Quieter cab

Viscous damping cab mounts ensure a quieter work environment, reducing operator fatigue whilst helping concentration.

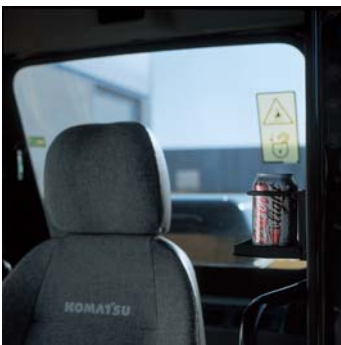


CONTROL

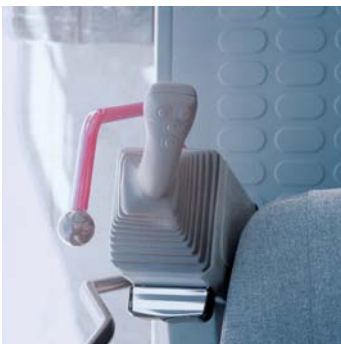
Komatsu was the first to introduce computer control into excavators. The latest control system used by the PC380-6 is sophisticated but easy to use.



Front visibility is further improved by the use of the Komatsu patented wiper system. When not in use the wiper parks on the cab frame itself with no contact with the front window. As well as giving excellent visibility, this system avoids the need to disconnect the wiper before lifting the front window.



The new, secure beverage holder is thoughtfully placed within the sight and easy reach of the operator.



Now, factory-wired 4-switch levers can be specified when ordering a new machine. Installed at the time of manufacture, the wires integrate within the standard internal harness, giving secure and easy expansion to connect additional functionalities. The wrist control levers are elevated for comfortable hand access.



The new, optional air suspension heated seat is the ultimate in comfort for operators who work long hours in cold climates.



12v in-cab power supply
A 12v, in-cab power supply is now standard-installed, in addition to the normal 24v service. It's a welcome addition for operators who want services such as powering or recharging their mobile phones.



Four Diagnostic Modes

1. Time Display mode

The default setting. It shows the time and hours meter.

2. User Code Display mode

Displays a trouble code and sounds an alarm when a problem has been detected.

3. Trouble Data Memory mode

Monitors 32 separate items and stores up to 20 abnormalities over 999 hours for effective troubleshooting.

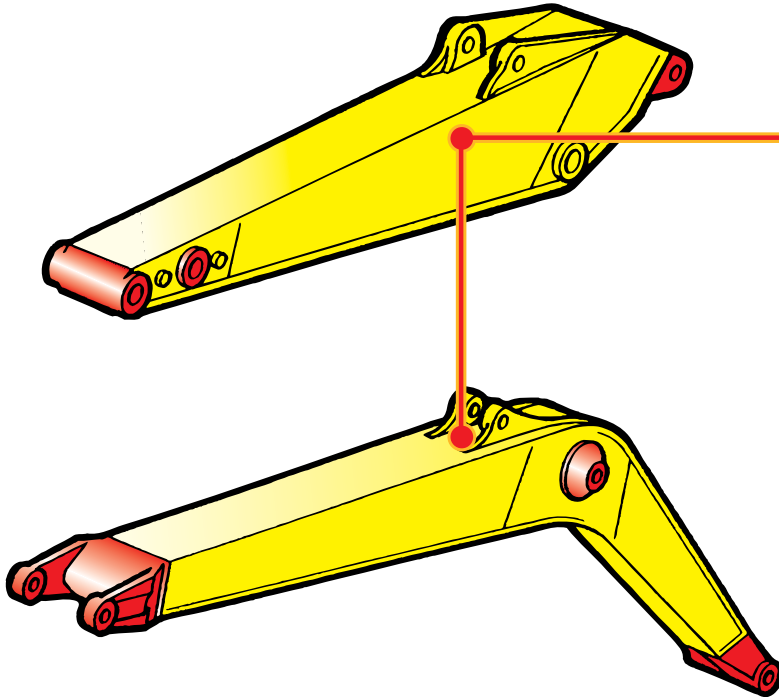
4. Operation Data mode

20 operating parameters, for example engine speed and hydraulic pressure, are continuously monitored so the operator can be informed immediately of a problem. In addition, service engineers can carry out electrical connection diagnostics.

Together these 4 diagnostic modes allow troubleshooting of 119 different potential problems to keep the machine operating at peak performance.

DURABILITY AND RELIABILITY

Komatsu has years of experience in the design and manufacture of hydraulic excavators. All of this experience has been used to make the PC380-6 exceptionally durable, even in the most arduous of applications.



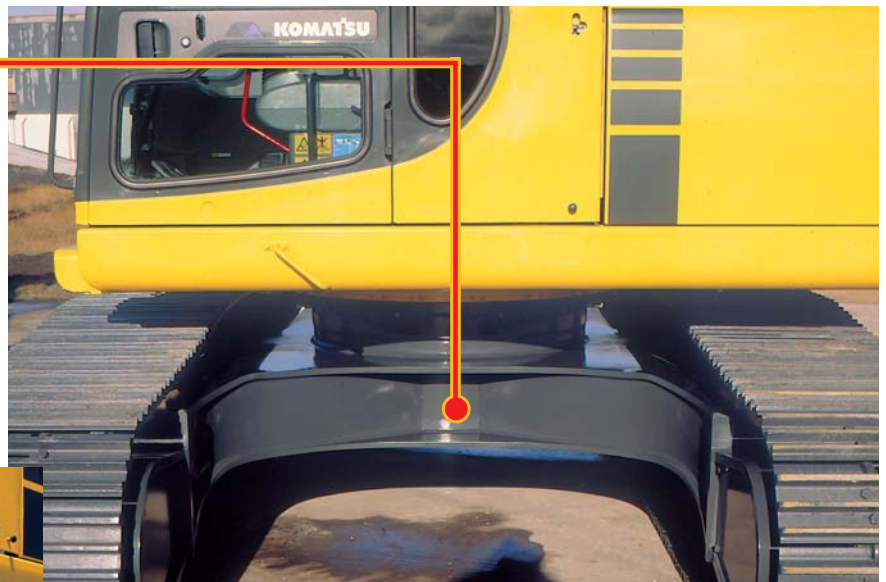
Designed and built for strength

Using the latest computer aided design techniques and exhaustive testing, the boom and arm designs have been optimised for strength and durability. A key feature is the extensive use of large castings, which distribute load evenly in high stress areas. The boom top and bottom plates are manufactured from single plates, again to distribute loads evenly and avoid potential weak points.

The highly automated manufacturing process uses the very latest equipment and quality control techniques. Critical welding is carried out by robots to ensure an extremely high quality and consistent product.

X-frame undercarriage

The X-frame undercarriage is a well-proven, Komatsu design used throughout the excavator range. The 'X'-design minimises distortion and twisting of the outer track-frames. This not only gives a long service life, but is also a significant factor in the stability of the excavator. Track-frame under-guards are installed as standard to protect the hydraulic components.



Optional full-length track roller guard

The new, full-length track roller guard prevents rocks from entering the tracks, reducing internal track wear. It also assists as a supplementary track guide.



SERVICEABILITY

Rapid and effective servicing and diagnostics are essential for machine availability and reduced servicing costs.



Accessible service locations

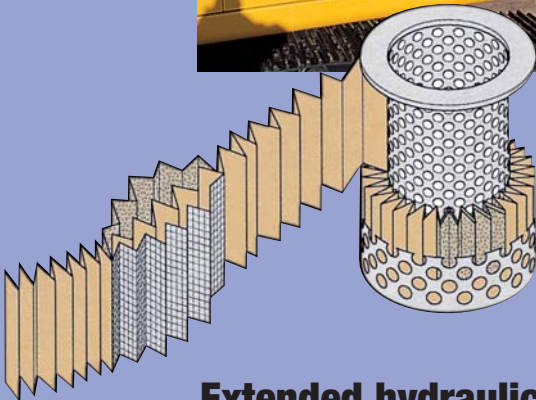
The operator and service staff can safely climb onto the machine using the large handrails and access all service locations easily through the wide opening doors and hoods. Service details include centralised greasing points and full guarding of the turbo-charger, fan and ancillary drive belts. Re-fuelling is quickly accomplished using the standard re-fuel pump.

Automatic greasing

Increase your productivity and reduce the maintenance costs with the optional factory installed Komatsu automatic greasing system (optional).

Extended hydraulic oil change intervals

The introduction of a new hybrid filter has extended the filter change interval to 500 hours and the oil itself now only needs to be replaced every 5 000 hours. Also to ensure that engine oil change intervals are followed, a new oil-change indicator function has been incorporated into the monitor panel. This warns the operator when a pre-set number of operating hours has elapsed, and displays the telephone number of the nearest Komatsu service centre.



Komatsu service support

Full service support is available through the Komatsu distributor network, backed-up by excellent parts availability from the Komatsu European parts distribution centre.



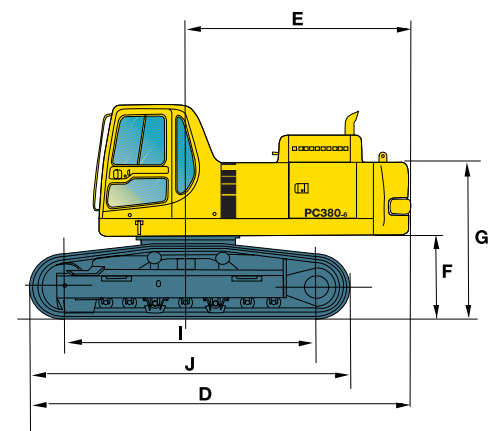
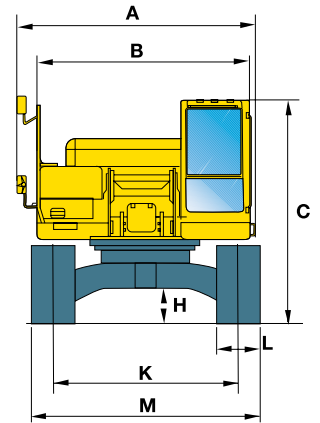
HYDRAULIC EXCAVATOR

PC380LC-6

PC380LC-6

A	Overall width of upper structure with mirrors and handrail	3397 mm	
B	Overall width of upper structure	2995 mm	
C	Overall height of cab	3265 mm	
D	Overall length of basic machine	5890 mm	
E	Tail swing radius	3384 mm	
F	Clearance under counterweight	1320 mm	
G	Machine tail height	2330 mm	
H	Ground clearance	555 mm	
I	Track length on ground	4350 mm	
J	Track length	5356 mm	
K	Track gauge	2372 mm*	2870 mm
L	Track shoe width	600, 700, 800 mm	
M	Overall track width with 600 mm shoe	2972 mm*	3470 mm
	Overall track width with 700 mm shoe	3072 mm*	3570 mm
	Overall track width with 800 mm shoe	3172 mm*	3670 mm

* Transport dimensions

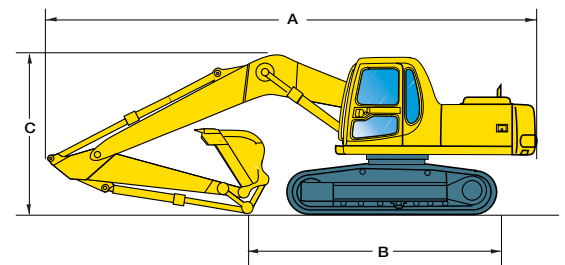


TRANSPORTATION DIMENSIONS

PC380LC-6

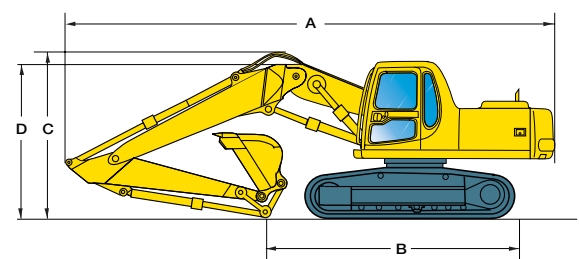
	Two-piece boom	Arm length			
		2200 mm	2500 mm	3200 mm	4000 mm
PC380LC-6	A	11261 mm	11150 mm	11100 mm	11136 mm
	B	7465 mm	6674 mm	5732 mm	5243 mm
	C	3524 mm	3411 mm	3255 mm	3631 mm

ONE-PIECE BOOM



	Two-piece boom	Arm length			
		2200 mm	2500 mm	3200 mm	4000 mm
PC380LC-6K	A	11077 mm	10913 mm	10859 mm	10572 mm
	B	7966 mm	7560 mm	6970 mm	6823 mm
	C	3837 mm	3902 mm	4030 mm	4502 mm
	D	3510 mm	3582 mm	3726 mm	4520 mm

TWO-PIECE BOOM



ENGINE

Type 6 cylinder, direct injection, emissionised, turbocharged, intercooled diesel,
 Model Komatsu SAA6D108E-2
 Power rating
 SAE J1349 (Gross) 183kW (245HP) at 2050 rpm
 SAE J1349 (Net) 173kW (232HP) at 2050 rpm
 Bore x stroke 108mm x 130mm
 Piston displacement 7.15 litre
 Air-cleaner and cooling Double element type with monitor panel dust indicator and auto dust evacuator.
 Suction type cooling fan with radiator flyscreen.

ELECTRICAL SYSTEM

Alternator 24 Volt - 33 ampere
 Batteries 2 x 12 Volt - 160 AH
 Starter motor 24 Volt - 7.5 kW

HYDRAULIC SYSTEMS

Type HydrauMind. Closed-centre system with load sensing and pressure compensation valves.
 Additional circuits Depending on specification upto 2 additional circuits can be installed.
 Main pump 2 variable displacement piston pumps supplying boom, arm, bucket, swing and travel circuits.
 Maximum pump flow 2 x 268 litre/min
 Relief valve settings
 Implement 355 kg/cm²
 Travel 355 kg/cm²
 Swing 290 kg/cm²
 Pilot circuit 30 kg/cm²

DRIVES & BRAKES

Steering control 2 levers with pedals giving full independent control of each track.
 Drive method Enclosed variable displacement axial piston motor driving through planetary double reduction gearbox for each track.
 Travel operation Automatic 3-speed selection
 Travel speeds Lo / Mi / Hi 2.0 / 3.4 / 4.3 km/h
 Maximum drawbar pull 34.498 kg
 Brake system Hydraulically operated discs in each travel motor.

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 to 10 rpm

ENVIRONMENT

Engine emissions Fully complies with EC stage 1 exhaust emission regulations.
 Noise levels L_{WA} External noise 107dB(A) (95/27/EC)
 L_{PA} Operator ear noise 80dB(A) (95/27/EC)

UNDERCARRIAGE

Construction X-frame centre section with box section track-frames
 Track assembly
 Type Fully sealed.
 Shoes (each side) 49
 Tension Combined spring and hydraulic unit
 Rollers
 Track rollers (each side) 8
 Carrier rollers (each side) 2

SERVICE / REFILL CAPACITIES

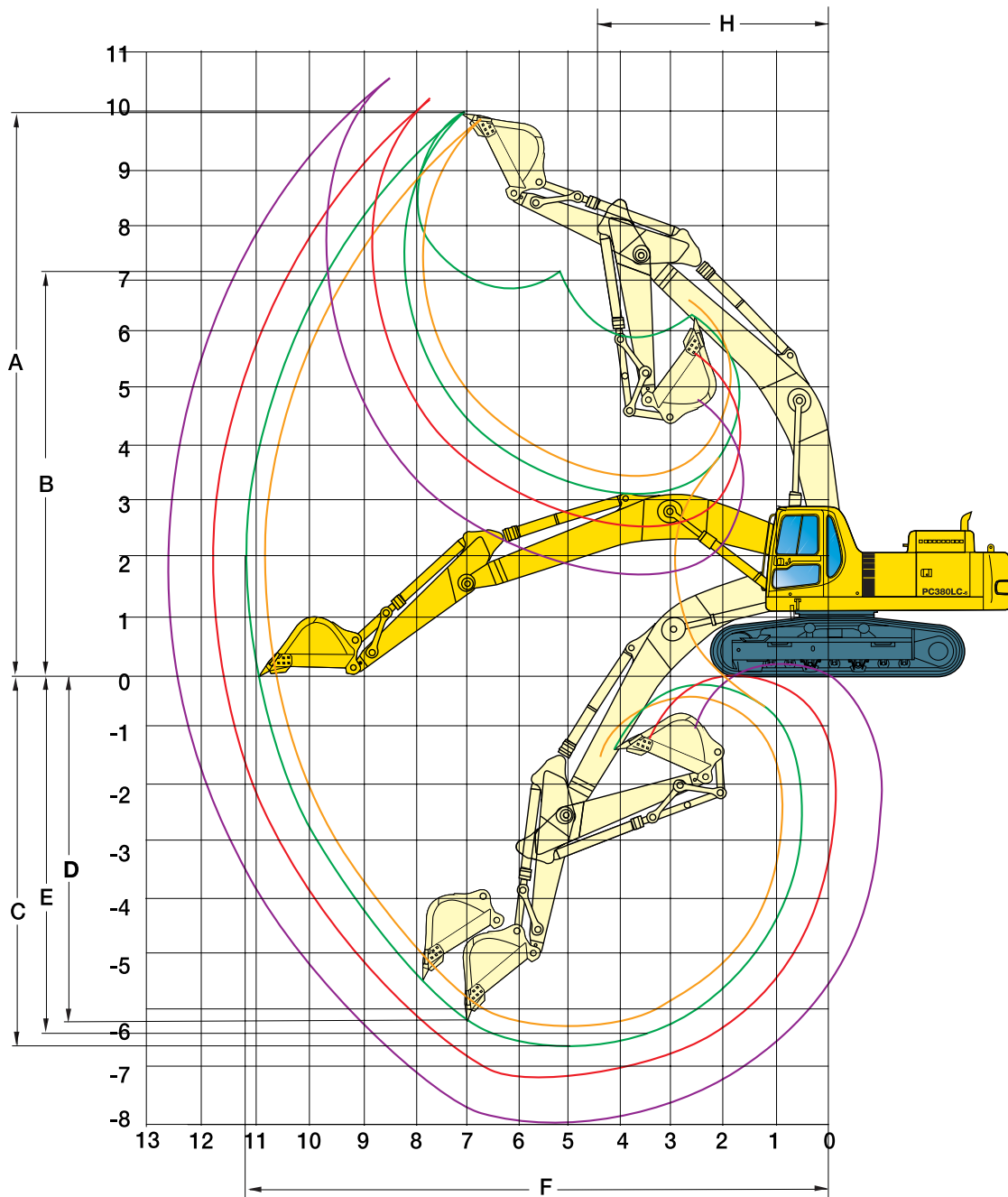
Fuel tank 540.0 ltr
 Radiator 32 ltr
 Engine 28.0 ltr
 Swing drive 13 ltr
 Hydraulic tank 205.0 ltr
 Final drive (each side) 9.5 ltr

OPERATING WEIGHT

Operating weight, including 6470 mm one-pièce boom, 3185 mm arm, SAE heaped 1.32 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

MONO BOOM

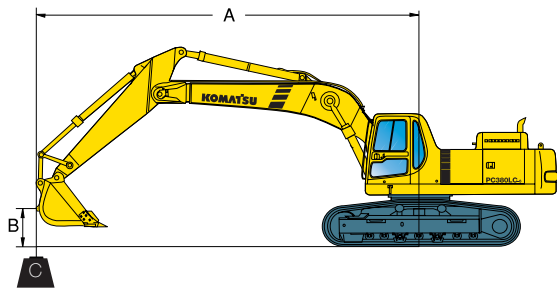
Triple grouser shoes	PC380LC-6	
	Operating weight	Ground pressure
600 mm	39,800 kg	0.70 kg/cm ²
700 mm	40,300 kg	0.61 kg/cm ²
800 mm	40,700 kg	0.54 kg/cm ²



Arm length	2200 mm	2550 mm	3185 mm	4020 mm	
A	Max. digging height	9725 mm	10110 mm	10345 mm	10685 mm
B	Max. dumping height	6750 mm	7050 mm	7245 mm	7635 mm
C	Max. digging depth	6225 mm	6575 mm	7245 mm	8045 mm
D	Max. vertical wall digging depth	4970 mm	5705 mm	6345 mm	7140 mm
E	Max. digging depth of cut for 2.44 m level	5990 mm	6385 mm	7045 mm	7910 mm
F	Max. digging reach	10155 mm	10550 mm	11100 mm	11900 mm
G	Max. digging reach at ground	9940 mm	10345 mm	10920 mm	11720 mm
H	Min. swing radius	4360 mm	4400 mm	4310 mm	4320 mm
I	Max. height of min-swing	8750 mm	8660 mm	8575 mm	8615 mm

LIFTING CAPACITIES mono boom

PC380LC-6



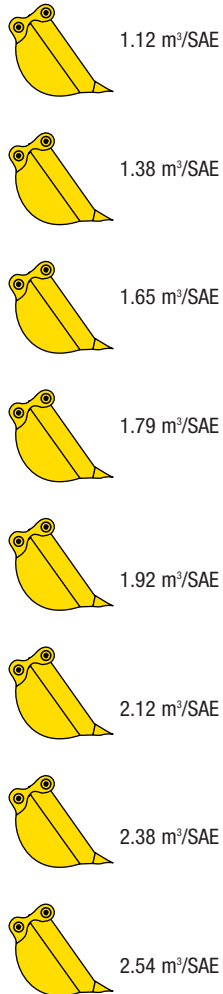
- A – Reach from swing center
- B – Bucket hook height
- C – Lifting capacities, including bucket linkage (120 kg) and bucket cylinder (265 kg)
- Rating over front
- Rating over side
- Rating at maximum reach

Arm length	B	A		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
With 700 mm shoe 4020 mm 970 kg 1.32 m ³	6.0 m	kg	*2800	*2800									
	4.5 m	kg	*2850	*2850	*6400	6400							
	3.0 m	kg	*2950	2950	*7150	7100	*8650	8650	*11500	*11500	*18400	*18400	
	1.5 m	kg	*3200	3200	*7900	6750	*10000	9550	*14000	14000	*6450	*6450	
	0.0 m	kg	*3550	3550	8450	6450	*10950	9050	*15400	14100	*7000	*7000	
	-1.5 m	kg	*4100	3950	8700	6250	*11250	8750	*15600	13700	*9650	*9650	*6050
	-3.0 m	kg	*5050	4450	8400	6200	*10900	8650	*14800	13650	*13400	*13400	*9350
	-4.5 m	kg	5900	5400	*7250	6250	*9700	8750	*13000	13000	*18300	*18300	*13200
With 700 mm shoe 3185 mm 970 kg 1.32 m ³	6.0 m	kg	*3800	*3800	*6650	6650							
	4.5 m	kg	*3900	3900	*7200	7200	*8400	*8400					
	3.0 m	kg	*4100	4100	*7900	7050	*9700	9700	*13250	13250			
	1.5 m	kg	*4450	4300	8500	6750	*10800	9450	*15250	14850			
	0.0 m	kg	*5000	4400	8900	6500	*11450	9100	*15900	14100	*6450	*6450	
	-1.5 m	kg	5950	4750	8800	6400	*11400	8900	*15500	13950	*10700	*10700	*7350
	-3.0 m	kg	6650	5450	8100	6400	*10800	8900	*14100	14000	*15900	*15900	*11600
	-4.5 m	kg	*6450	6450			*8700	8700	*11800	11800	*15400	*15400	
With 700 mm shoe 2550 mm 970 kg 1.32 m ³	6.0 m	kg	*5600	5600	*7200	7200							
	4.5 m	kg	*5700	5200	*7700	7200	*9100	9100	*11750	*11750			
	3.0 m	kg	*6000	4850	*8300	6950	*10300	9800	*14300	14300			
	1.5 m	kg	6500	4750	8800	6700	*11200	9300	*15750	14250			
	0.0 m	kg	7050	4900	8950	6500	*11550	9000	*15800	13950			
	-1.5 m	kg	7100	5300	8650	6450	*11200	8900	*14850	13950	*11100	*11100	
	-3.0 m	kg	*7000	6250	*7450	6500	*10050	9000	*13100	13100	*16850	*16850	
	-4.5 m	kg	*6450	6450			*7400	7400	*10000	*10000	*12450	*12450	
With 700 mm shoe 2550 mm 970 kg 1.32 m ³	6.0 m	kg	*7350	6500	*7550	7350	*8450	*8450					
	4.5 m	kg	7300	5700	*7950	7200	*9500	9500	*12450	*12450			
	3.0 m	kg	7350	5250	*8500	6900	*10800	9700	*14850	14850			
	1.5 m	kg	7400	5150	8900	6650	*11400	9250	*14500	14100			
	0.0 m	kg	7500	5300	9000	6500	11550	9000	*15550	13900			
	-1.5 m	kg	7550	5800	8500	6500	*11050	8950	*14450	13950	*12400	*12400	
	-3.0 m	kg	*7450	6950			*9650	9100	*12400	12400	*15250	*15250	
	-4.5 m	kg	*6650	*6650					*8950	*8950			

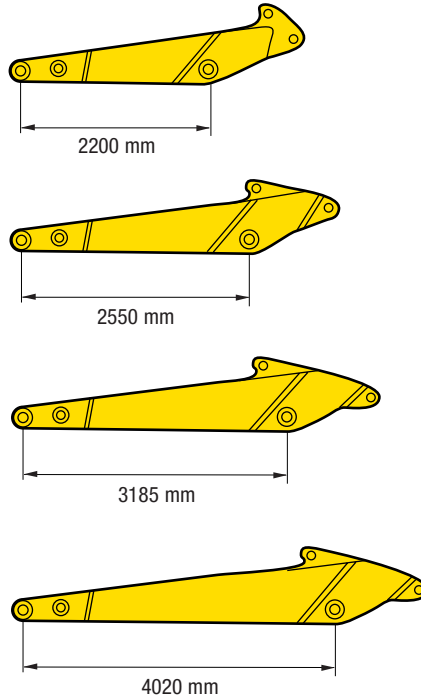
* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No. J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Specifications and equipment may vary according to regional availability

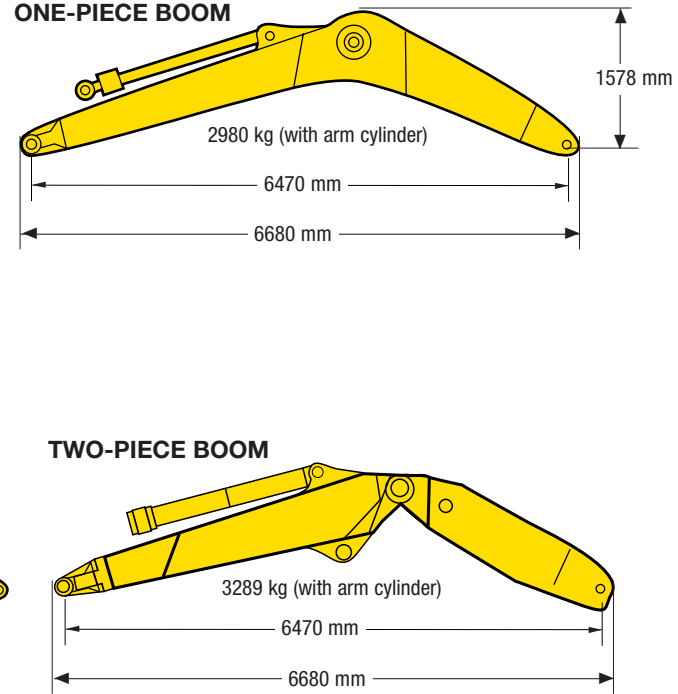
BACKHOE BUCKET



ARM



BOOM



BUCKET AND ARM COMBINATION

Bucket capacity (heaped) SAE, PCSA	Width	Weight	Arm			
			2200 mm	2550 mm	3185 mm	4020 mm
1.12 m ³	1000 mm	873 kg	○	○	○	○
1.38 m ³	1200 mm	977 kg	○	○	○	○
1.65 m ³	1400 mm	1062 kg	○	○	○	○
1.79 m ³	1500 mm	1104 kg	○	○	○	□
1.92 m ³	1600 mm	1166 kg	○	○	○	□
2.12 m ³	1750 mm	1230 kg	○	○	○	□
2.38 m ³	1800 mm	1450 kg	□	□	□	△
2.54 m ³	1850 mm	1820 kg	△	△	△	X

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

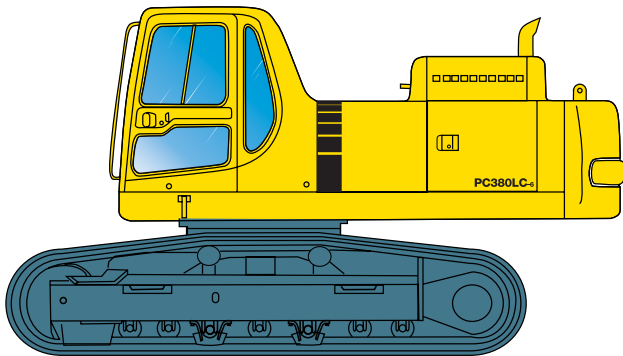
- Material weight up to 1.8 t/m³
- Material weight up to 1.5 t/m³
- △ Material weight up to 1.2 t/m³
- X Not useable

BUCKET AND ARM FORCE

Arm length	2200 mm	2550 mm	3185 mm	4200 mm
Bucket digging force	21600 kg (212 kN)	21600 kg (212 kN)	21600 kg (212 kN)	21600 kg (212 kN)
Arm crowd force	20400 kg (200 kN)	17700 kg (174 kN)	14800 kg (145 kN)	12600 kg (124 kN)

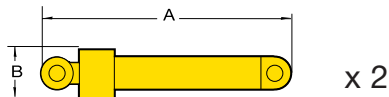
BASIC MACHINE

(APPROXIMATE WEIGHTS)



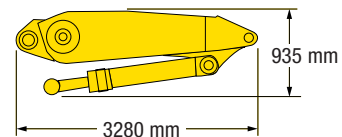
Shoe width	Weight
	PC380LC-6
600 mm	30122 kg
700 mm	30502 kg
800 mm	30882 kg

BOOM CYLINDERS



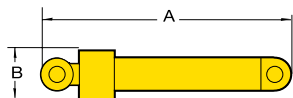
A	B	Weight (each)
2300 mm	209 mm	280 kg

TWO-PIECE BOOM - FIRST BOOM WITH ADJUST CYLINDER



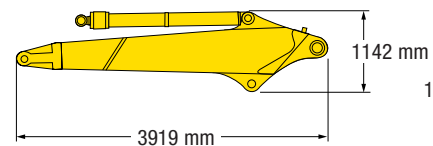
1824 kg (total weight)
477 kg (adjust cylinder)

ARM CYLINDER



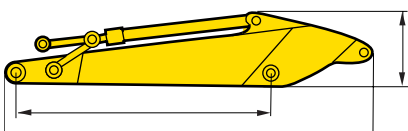
A	B	Weight
2575 mm	237 mm	422 kg

TWO-PIECE BOOM - SECOND BOOM WITH ARM CYLINDER



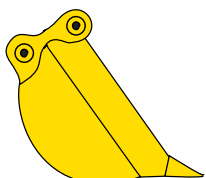
1942 kg (total weight)

ARM WITH BUCKET CYLINDER AND LINKAGE



Arm length	2200 mm	2550 mm	3185 mm	4020 mm
A	3359 mm	3656 mm	4302 mm	5119 mm
B	965 mm	927 mm	888 mm	902 mm
Weight	1590 kg	1610 kg	1725 kg	2020 kg

BUCKET BACKHOE



Capacity (SAE)	1.12 m³	1.38 m³	1.65 m³	1.79 m³	1.92m³	2.12 m³	2.38 m³	2.54 m³
Width	1000 mm	1200 mm	1400 mm	1500 mm	1600 mm	1750 mm	1800 mm	1850 mm
Weight	873 kg	977 kg	1062 kg	1104 kg	1166 kg	1230 kg	1450 kg	1820 kg

KOMATSU CRAWLER EXCAVATOR SERIES PC380LC-6



STANDARD EQUIPMENT

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

- Komatsu SAA6D108E-2, 173.0 kW direct injection emissionised intercooled turbo charged diesel engine.
- Double element type air-cleaner with monitor panel dust indicator and auto-dust evacuator.
- Suction type cooling fan with radiator flyscreen.
- Automatic fuel line de-aeration
- Engine key stop
- Alternator, 24 Volt, 33 ampere
- Batteries, 2x12 Volt, 160 AH
- Starter motor, 24 Volt, 7.5 kW
- Electronic closed-centre load sensing
- (E-CLSS) hydraulic system (HydrauMind).
- Pump and engine mutual control (PEMC) system
- Monitor panel with working mode selection system
- Power-Max function
- Active mode.
- Swift Slow-down function.
- Auto-deceleration functions.
- 2-mode boom setting.
- Automatic engine warm-up system.
- Engine overheat prevention system.
- Fuel control dial.
- Adjustable PPC wrist control levers for arm, boom, bucket and swing.
- PPC control levers and pedals for steering and travel.
- Additional 2-way proportional service valve.
- Hydrostatic, 3-speed travel system with automatic-shift and hydraulic travel and parking brakes.
- All-weather sound suppression type cab with tinted safety glass windows, pull-up type front window with locking device, removable lower window, ashtray, luggage box, floor mat
- Sun Roller
- Suspension seat with adjustable arm rests.
- Front window wiper with intermittent feature
- Air-conditioner and large capacity heater.
- Electrical horn
- Radio-Cassette prep.
- Cigarette lighter
- Large handrails and rear-view mirrors
- Boom safety valves
- Overload warning device
- Track frame under-guards
- Fuel supply pump
- Remote greasing for swing circle and pins
- Lockable fuel cap and covers.
- Parts book and operator manual
- Track roller guards
- Beverage holder
- 12 Volt power supply

OPTIONAL EQUIPMENT

- LC and NLC undercarriages
- 600, 700, 800, 900 mm triple grouser track-shoes
- 1-Piece boom
- Straight boom
- 2.2 m, 2.6 m, 3.2 m, 4.0 m arms
- Two-piece boom
- Heated air suspension seat
- 4 function PPC levers
- Automatic greasing system
- Additional lowback pressure hydraulic circuits
- Machine lifting points
- Arm safety valve
- Operator cab fops and front guard
- Full length track roller guards
- Roof window guard
- Radio cassette
- Additional cab roof lights
- Rain visor
- Komatsu buckets
- Demolition boom arm
- Bio-degradable oil
- Clear cab roof hatch

KOMATSU

**Komatsu Europe
International N.V.**

Mechelsesteenweg 586
B 1800 VILVOORDE (BELGIUM)

Tel. (32)2/255 24 11
Fax (32)2/252 19 81