KOMATSU® PC750LC-7

PC750LC-7 PC750SE-7 NET HORSEPOWER 338 kW 454 HP @ 1.800 rpm

OPERATING WEIGHT PC750LC-7: 80.645 - 83.760 kg PC750SE-7: 76.245 - 78.660 kg

> рс 750

> > Hydraulic

Excavator

BUCKET CAPACITY 3,6 - 6,0 m³



PC750LC/SE-7

WALK-AROUND

Productivity features

• Large digging force High operating efficiency with large digging force at rugged work sites.

- Heavy lift mode The heavy lift mode increases the lifting force by 10%.
- Swing priority mode The swing priority mode improves efficiency for loading dump trucks.
- **Two-mode setting for the boom** Switch selection allows either powerful digging or smooth boom operation.
- Fuel consumption is reduced by 12% in the economy mode.
- Large drawbar pull and steering force provide excellent mobility.
- Excellent swing performance Provides excellent swing performance on slopes.

In harmony with the environment

Low emission engine: The powerful turbocharged and aftercooled Komatsu SAA6D140E-3 engine provides 338 kW (454 HP). The engine meets EC Stage II without sacrificing power or machine productivity.

KOMATSU

Excellent reliability and durability

- Shockless boom Switch selection reduces chassis vibration after sudden stops.
- Face seals with excellent sealing performance are used for the hydraulic hoses.
- **Protected hydraulic circuit** The cool-running hydraulic system is protected with the most extensive filtration system available, including a high pressure in-line filter for each main pump.
- Sturdy guards shield the travel motors against damage from rocks.
- Highly-reliable electronic devices Exclusively-designed electronic devices are certified by severe testing.
 - Controller
 Sensors
 - Connectors Heat-resistant wiring

PC750-7

NET HORSEPOWER 338 kW 454 HP

OPERATING WEIGHT

PC750LC-7: 80.645 - 83.760 kg PC750SE-7: 76.245 - 78.660 kg

BUCKET CAPACITY 3,6 - 6,0 m³

Easy maintenance

The replacement interval is extended by the new hydraulic filter.

Large handrail, step and catwalk

Provide easy access to the engine and hydraulic equipment.

Large, comfortable cab

- Low noise and vibration with cab damper mounting
- Large-capacity cab with narrow corner posts provides improved visibility
- Large-capacity air conditioner
- Pressurised cab prevents external dust from entering

Advanced monitor features

- Machine condition can be checked with Equipment Management Monitoring System (EMMS)
- Two working modes combine with heavy lift mode for maximum productivity

WORKING ENVIRONMENT

PC750-7's cab interior is spacious and provides a comfortable working environment...

SpaceCab[™]

Superb visibility

The PC750-7's large capacity cab and increased glass area provide superb front visibility.

Cab mounts

The new cab damper mounting reduces vibrations and noise at operator's seat.

Standard heated air suspension seat

Low-noise design

The noise levels at the operator's ear have been decreased by improving the cab mounts and cab sealing performance.

Multi-position controls

The multi-position, proportional pressure control levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and controllers to move together or independently, allowing the operator to position the controllers for maximum productivity and comfort.

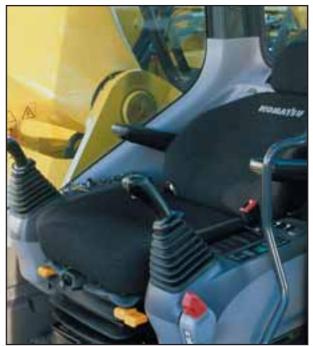
Pressurised cab

The optional air conditioner, air filter, and a higher internal air pressure (6 mm Aq) prevent external dust from entering the cab.

Automatic air conditioner

A 6.900 kcal air conditioner is utilised. The bi-level control function keeps the operator's head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year.





Seat with headrest fully reclined





Safety features



Pump/engine room partition

Prevents hydraulic oil from spraying onto the engine to reduce the risk of fire.



Step light with timer provides light for about one minute to allow the operator to get off the machine safely.



Thermal guards are placed around hightemperature parts of the engine and accessory drive.



PC750-7

Large handrails and wide catwalk

Provided around the revolving frame for easier and safer access to the engine and hydraulic components.

EMMS

Working mode selection

Hydraulics

A unique two-pump system assures smooth compound movement of the work equipment. The OLSS (Open Center Load Sensing System) controls all pumps for efficient use of engine power. This system also reduces hydraulic loss during operations.

Active and Economy mode

The PC750-7 excavator is equipped with two working modes. Each mode is designed to match the engine speed, pump speed, and system pressure to the current application, giving the operator the flexibility to match the equipment performance to the job at hand.

	Working mode	Advantage
Α	Active mode	Maximum production/power
		Fast cycle times
Е	Economy mode	Good cycle times
		Good fuel economy

Heavy lift mode

Gives the operator 10% more lifting force on the boom when needed for handling rock or heavy lifting applications.

Swing priority setting

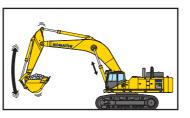
The swing priority setting allows the operator to use the same easy motion for 180° loading as for 90° loading operations. By altering the oil flow, this setting allows you to select either boom or swing as the priority for increased production.

	Advantage	
ON	Oil flow to the swing motor is increased	
	 180° loading operations are most efficient 	
0FF	Oil flow to the boom is increased	
	 90° loading operations are most efficient 	

Shockless Boom Control

The PC750-7 features a shockless valve (doublecheck slow return valve) that automatically reduces

the amount of vibration present when operating the boom. Operator fatigue is reduced (which can improve safety and productivity), and spillage caused by vibration is prevented.



Multi-function colour monitor

EMMS (Equipment Management Monitoring System)

- Monitor function: The controller monitors the engine oil level, coolant temperature, battery charge, air-filter restriction, and more. The controller finds any abnormality and displays it on the LCD.
- On the LCD, the maintenance monitor function informs of the need to replace the oil and filters, when the replacement interval is

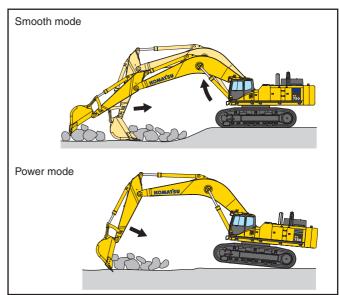


replacement interval is reached.

• The trouble data memory function stores machine abnormalities (error codes) in the monitor for effective troubleshooting.

Two settings for the boom

Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to the **power mode** for more effective excavating.



PRODUCTIVITY FEATURES

High production and low fuel consumption

Engine

The PC750-7 gets its exceptional power and work capacity from its Komatsu SAA6D140E-3 engine. The output is 338 kW (454 HP), providing more hydraulic power. In addition, the fuel consumption is reduced by 12% when using the economy mode. The engine meets EC Stage II regulations.

Large digging force

Thanks to the high engine output and an excellent hydraulic system, this machine delivers a powerful digging force.

Large drawbar pull and steering force

Because the machine has a large drawbar pull and a substantial steering force, it provides excellent mobility, even when working on an incline. In addition, this machine is equipped with an automatic travel speed shifting system, which makes automatic travel Hi/Lo shift.

PC750-7

Excellent swing performance

The twin-swing motor system of PC750-7 provides excellent swing performance on slopes.

Excellent machine stability

The rear center of gravity and the 12 ton counterweight provides the stability and lifting capacity needed for maximum productivity.



DURABILITY & RELIABILITY

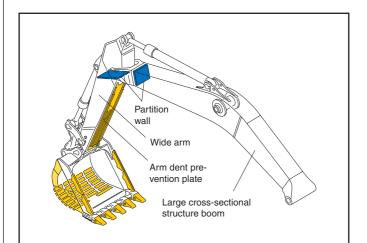
Excellent reliability and durability

Strengthened boom and arm

Thanks to the large cross-sectional structure employing a high tensile strength steel with a thick plate, partition wall, etc., the boom and arm provide excellent durability and are highly resistant to bending and twisting.

Heat-resistant wiring

Heat-resistant wiring is utilised for the engine's electric circuit and other major component circuits.



O-ring face seals

The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance during vibration.

Metal guard rings

Metal guard rings protect all of the hydraulic cylinders, and improve reliability.



Circuit breaker With the circuit breaker, the machine can be easily restarted after repairs.

Sturdy undercarriage

The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock.

DT-type connectors

seal tight and have higher reliability



2 track roller guards (Standard)



High-pressure In-Line filtration

The PC750-7 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failure caused by contamination.



Extra track roller guard (Optional)



Full length track roller guards (Optional)

MAINTENANCE FEATURES

Easy maintenance – Komatsu designed the PC750-7 for easy service access

Wide catwalk

A wide walkway for maintenance is provided around the engine and hydraulic components, allowing easy access to the inspection and maintenance points.

Reduced maintenance costs

The hydraulic oil filter replacement has been extended from 500 hours to 1000 hours.

Motorised grease gun equipped with hose reel (optional)

Greasing is made easy with the electric motorised grease gun and indicator.

Divided type engine cover

The divided engine cover allows inspection points around the engine to be easily accessed.



PC750-7





Specifications



ENGINE

Model	Komatsu SAA6D140E-3
Туре	Direct injection, 4 cycle, water-cooled,
	turbocharged, after-cooled diesel
Rated capacity	
at engine speed	1.800 rpm
No. of cylinders	6
Bore × stroke	140 × 165 mm
Displacement	15,24 ltr
Governor	All-speed, electronic



HYDRAULIC SYSTEM

Type Open-cent	ter load-sensing system
Number of selectable working modes	2
Main pump Variabl	le-capacity piston pump
Pumps for Boom, arm, bucket, s	wing, and travel circuits
Maximum pump flow	2 × 494 ltr/min
Supply for control circuit	Gear pump
Hydraulic motors:	
Travel2 × axial piston m	notor with parking brake
Swing2 × axial piston motor w	with swing holding brake
Relief valve settings	Implement circuits
Implement circuits	320 kg/cm ²
Travel circuit	350 kg/cm ²
Swing circuit	290 kg/cm ²
Heavy lift circuit	350 kg/cm ²
Pilot circuit	30 kg/cm ²
Hydraulic cylinders (No. of cylinders – bore ×	stroke):
Boom2	2 – 200 mm × 1.950 mm
Arm2	2 – 185 mm × 1.610 mm
Bucket (2.945 mm arm) 1	
Bucket (3.600 mm arm)1	– 185 mm × 1.610 mm

ENVIRONMENT

Engine emissions	Fully complies with Stage II
-	exhaust emission regulations
Noise levels	
LwA external	
LpA operator ear	76 dB(A) (ISO 6369 dynamic test)

OPERATING WEIGHT (APPR.)



SWING SYSTEM

Туре	Hydraulic motor
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Swing lock	Oil disc brake
Swing speed	6,8 rpm



DRIVES AND BRAKES

Drive method	2 levers with pedals Fully hydrostatic Axial piston motor, in-shoe design
Max. drawbar pull	57.000 kg
Gradeability	
Max. travel speeds	
Lo / Hi	2,8 / 4,2 km/h
Service brake	Hydraulic lock
Parking brake	Oil disc brake

UNDERCARRIAGE

Construction	H-leg frame
	with box section track-frames
Track assembly	
Туре	Fully sealed
Shoes (each side)	
Tension	Hydraulic
Rollers	
Track rollers (each side)	
Carrier rollers (each side)	

COOLANT AND LUBRICANT CAPACITY (REFILLING)

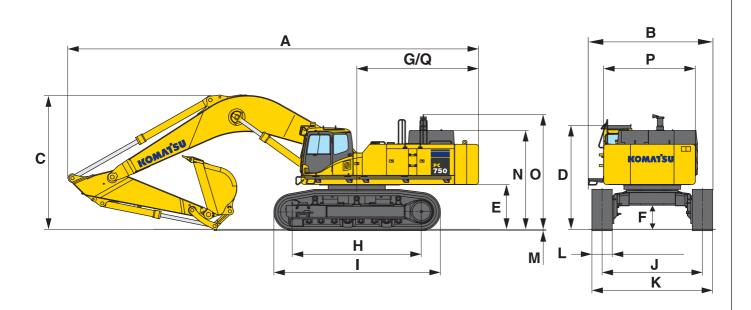
Fuel tank	
Radiator	85 ltr
Engine oil	55 ltr
Swing drive	24,5 ltr
Hydraulic tank	440 ltr
Final drive (each side)	20 Itr

Operating weight, including 7.100 mm boom, 2.945 mm arm, 4,0 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank and the standard aquinment

dupment.								
	PC750SE-7		PC750LC-7		PC750LC-7		PC750SE-7	
Work equipment	7,1 m boom / 2,9 m arm / 4,0 m³ bucket (SAE)		7,1 m boom / 2,9 m arm / 4,0 m³ bucket (SAE)		8,0 m boom / 3,6 m arm / 3,6 m³ bucket (SAE)		8,0 m boom / 3,6 m arm / 3,6 m³ bucket (SAE)	
Wide double grouser shoes	Operating weight	Ground pressure						
610 mm	76.245 kg	1,263 kg/m ²	-	-	-	-	76.560 kg	1,268 kg/cm ²
710 mm	76.945 kg	1,095 kg/m ²	80.645 kg	1,029 kg/m ²	80.960 kg	1,033 kg/m ²	77.260kg	1,099 kg/cm ²
810 mm	77.645 kg	0,968 kg/m ²	81.345 kg	0,91 kg/m ²	81.660 kg	0,913 kg/m ²	77.960 kg	0,972 kg/cm ²
910 mm	78.345 kg	0,870 kg/m ²	-	-	-	-	78.660 kg	0,873 kg/cm ²
1.010 mm	-	-	82.745 kg	0,816 kg/m ²	83.060 kg	0,819 kg/m ²	-	-
1.110 mm	-	-	83.445 kg	0,749 kg/m ²	83.760 kg	0,752 kg/m ²	-	-

MACHINE DIMENSIONS

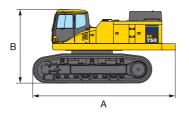
PC750-7



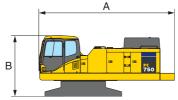
MODEL		PC750LC-7		PC750SE-7	
Boom length		8.040 mm	7.100 mm	8.040 mm	7.100 mm
Ar	m length	3.600 mm	2.945 mm	3.600 mm	2.945 mm
Α	Overall length	13.895 mm	13.030 mm	13.895 mm	13.030 mm
В	Overall width	4.210 mm	4.210 mm	4.110 mm	4.110 mm
С	Overall height (to top of boom)	4.850 mm	4.615 mm	4.850 mm	4.615 mm
D	Overall height (to top of OPG)	3.640 mm	3.560 mm	3.640 mm	3.560 mm
E	Clearance under counterweight	1.560 mm	1.560 mm	1.560 mm	1.560 mm
F	Minimum ground clearance	840 mm	840 mm	840 mm	840 mm
G	Tail swing radius	4.300 mm	4.300 mm	4.300 mm	4.300 mm
н	Track length on ground	5.020 mm	5.020 mm	4.500 mm	4.500 mm
I.	Track length	6.327 mm	6.327 mm	5.810 mm	5.810 mm
J	Track gauge	3.500 mm	3.500 mm	3.500 mm	3.500 mm
К	Width of crawler	4.210 mm	4.210 mm	4.110 mm	4.110 mm
	Width of crawler (when retracted)	3.490 mm	3.490 mm	3.390 mm	3.390 mm
L	Track shoe width	710 mm	710 mm	610 mm	610 mm
М	Grouser height	50 mm	50 mm	50 mm	50 mm
Ν	Machine cab height	3.445 mm	3.445 mm	3.445 mm	3.445 mm
0	Machine cab height (to top of exhaust pipe)	4.000 mm	4.000 mm	4.000 mm	4.000 mm
Р	Machine cab width	3.195 mm	3.195 mm	3.195 mm	3.195 mm
Q	Distance, swing center to rear end	4.245 mm	4.245 mm	4.245 mm	4.245 mm

DIMENSIONS

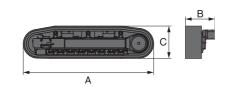
UPPER STRUCTURE + UNDERCARRIAGE



UPPER STRUCTURE

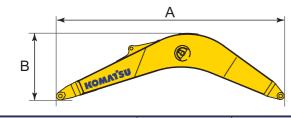


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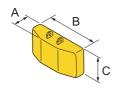
WORK EQUIPMENT

Boom



B	DOM LENGTH	7.100 mm	8.040 mm	
A	Length	7.405 mm	8.345 mm	
В	Height	2.465 mm	2.600 mm	
	Overall width	1.500 mm	1.500 mm	
	Weight	6.800 kg	7.700 kg	

COUNTERWEIGHT



CYLINDERS

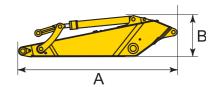
BOOM CYLINDER								
А	Length	3.180 mm						
	Weight	1.620 kg (2× 810 kg)						

		PC750SE-7	PC750LC-7
Α	Length	6.840 mm	7.100 mm
в	Height	3.630 mm	3.630 mm
	Overall width	3.490 mm	3.490 mm
	Weight	46.200 kg	49.900 kg

		PC750SE/LC-7
Α	Length	5.970 mm
в	Total height	2.730 mm
	Overall width	3.195 mm
	Height to upperstructure	780 mm
	Weight	24.900 kg

		PC750SE-7	PC750LC-7
	Quantity	2	2
А	Length	5.810 mm	6.330 mm
В	Overall width	1.445 mm	1.445 mm
С	Height	1.305 mm	1.305 mm
	Weight	22.500 kg (2× 11.250 kg)	26.200 kg (2× 13.100 kg)

Arm



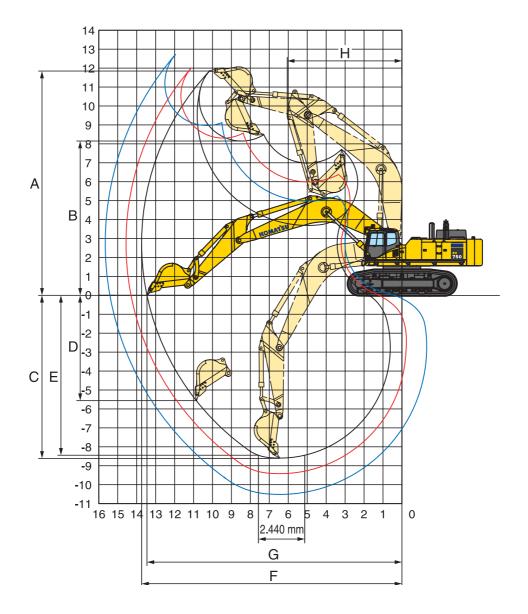
AF	RM LENGTH	2.945 mm	3.600 mm			
Α	Length	4.075 mm	4.800 mm			
в	Height	1.695 mm	1.410 mm			
	Overall width	750 mm	750 mm			
	Weight	4.900 kg	4.500 kg			

		PC750SE/LC-7
А	Width	830 mm
В	Length	3.195 mm
С	Height	1.530 mm
	Weight	12.040 kg

ARM CYLINDER								
А	Length	2.595 mm						
	Weight	1.080 kg (2× 540 kg)						

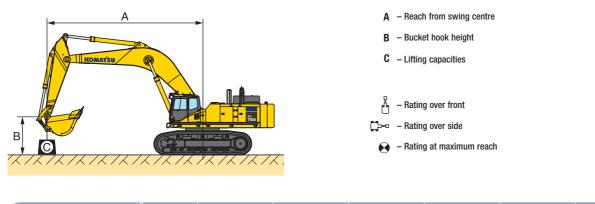
WORKING RANGE

PC750-7



М	DDEL	PC750LC-7	PC750SE-7
Вс	om Length	8.040 mm	7.100 mm
Ar	m Length	3.600 mm	2.945 mm
Α	Max. digging height	11.955 mm	11.330 mm
В	Max. dumping height	8.235 mm	7.525 mm
С	Max. digging depth	8.445 mm	7.130 mm
D	Max. vertical wall digging depth	5.230 mm	4.080 mm
Е	Max. digging depth of cut for 2,44 m level	8.310 mm	6.980 mm
F	Max. digging reach	13.660 mm	12.265 mm
G	Max. digging reach at ground level	13.400 mm	11.945 mm
н	Min. swing radius	5.985 mm	5.645 mm
	Bucket digging force (SAE)	32.200 kg	39.900 kg
	Arm crowd force (SAE)	29.100 kg	33.800 kg
	Bucket digging force (ISO)	37.000 kg	43.900 kg
	Arm crowd force (ISO)	30.400 kg	34.800 kg

LIFTING CAPACITY



	A	$\mathbf{\Theta}$		9,0) m	7,5	5 m	6,0) m	4,5	5 m	3,0) m
Arm length	в	Å	[]≫	Å	[]≫	Å	[]≫	Å	[]≫	Å	[]≫	Å	[]≫

PC750SE-7

Heavy Lift: OFF

With 610 mm shoe	6,0 m	kg	*13.250	11.950	*13.450	12.800	*15.250	*15.250	*18.500	*18.500				
2.945 mm	3,0 m	kg	13.000	9.950	*15.200	11.950	*18.750	16.700	*25.000	24.300				
2.945 mm	0,0 m	kg	13.550	10.300	14.750	11.250	20.200	15.450	26.850	22.450	*27.200	*27.200		
Boom: 7.100 mm	-3,0 m	kg	*15.650	14.250			*17.200	15.550	*22.850	22.750	*29.600	*29.600	*37.150	*37.150

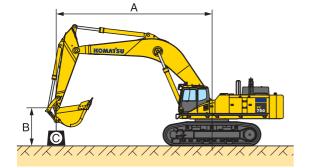
Heavy Lift: ON

	i i i i i i i i i i i i i i i i i i i													
With 610 mm shoe	6,0 m	kg	*15.300	11.950	*15.550	12.800	*17.500	*17.500	*21.050	*21.050				
2.945 mm	3,0 m	kg	13.000	9.950	15.450	11.950	*21.450	16.700	*28.400	24.300				
4,3 m ³	0,0 m	kg	13.550	10.300	14.750	11.250	20.200	15.450	29.750	22.450	*30.200	*30.200		
Boom: 7.100 mm	-3,0 m	kg	*18.150	14.250			*19.850	15.550	*26.200	22.750	*33.850	*33.850	*42.600	*42.600

* 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.

PC750-7



Α	- Reach from swing centre
В	– Bucket hook height
C	- Lifting capacities
Å	- Rating over front
[≫	- Rating over side
$\mathbf{\Theta}$	- Rating at maximum reach

	A	$\mathbf{\Theta}$		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m	
Arm length	в	Å	[]≫	Å	[]≫	Å	[]≫	Å	[]>=	Å	[]>=□	Å	[]≫

PC750SE-7

Heavy Lift: OFF

Boom: 8.040 mm

With 610 mm shoe	6,0 m	kg	*10.550	9.050	*11.950	*11.950	*14.000	*14.000	*17.500	*17.500				
	3,0 m	kg	10.100	7.650	*14.150	12.050	*17.700	16.500	*24.000	23.400				
3.600 mm	0,0 m		10.250	7.700	14.450	11.000	19.600	14.850	*25.900	21.300				
3 ,4 m ³	-3,0 m	kg	12.700	9.600	14.250	10.800	*18.400	14.650	*23.550	21.400	*30.250	*30.250	*28.050	*28.050
Boom: 8.040 mm	-6,0 m	kg	*12.850	*12.850					*15.550	*15.550				
Heavy Lift: ON														
neavy Lint. ON	_													
With 610 mm shoe	6,0 m	kg	11.750	9.050	*13.850	13.450	*16.100	*16.100	*19.900	*19.900				
	6,0 m 3,0 m	kg kg	11.750 10.100	9.050 7.650	*13.850 15.600	13.450 12.050	*16.100 *20.350	*16.100 16.500	*19.900 *27.400	*19.900 23.400				
	,	Ŭ												

* Load is limited by hydraulic capacity rather than tipping.

-6,0 m

Ratings are based on SAE Standard No. J1097.

Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

kg *15.150 *15.150

Bucket, arm and boom combinations PC750SE/LC-7

BUCKET CAPACITY	WIDTH	WEIGHT	STANDARD W/E	OPTIONAL W/E
3,6 m ³	1.750 mm	3.575 kg	0	0
4,0 m ³	1.950 mm	3.700 kg	0	0
4,4 m ³	2.140 mm	3.800 kg	0	0
5,1 m ³	2.480 mm	3.925 kg	0	0
5,6 m ³	2.730 mm	4.025 kg		
6,0 m ³	2.920 mm	4.100 kg		\triangle

Material weight up to 1,8 t/m³

*18.250 *18.250

□ Material weight up to 1,5 t/m³

△ Material weight up to 1,2 t/m³

PC750-7

CRAWLER EXCAVATOR



STANDARD EQUIPM

- Komatsu SAA6D140E-3 338 kW direct injection emissionised Stage II intercooled turbocharged engine
- Double element type air cleaner with dust indicator and auto-dust evacuator
- · Cooling fan: suction type and fan guard
- · Radiator & oil cooler with fly net
- Automatic fuel line de-aeration
- Alternator 24 V/50 A
- Batteries 2 × 12 V/170 Ah
- Starter motor 24 V/11 kW
- · Electronic Open-centre load sensing (E-OLSS) hydraulic system
- Auto-deceleration function
- · Multi-function colour monitor with equipment management monitoring system (EMMS)

- · Working mode selection system
- Swing priority function
- Two-mode boom setting
- Automatic engine warm-up system • Engine overheat prevention system
- · Fuel control dial
- In-line filter for hydraulics
- Adjustable PPC wrist control levers with 3 button controls for arm,
- boom, bucket and swing • PPC control levers and pedals for
- steering and travel • Drive system: hydrostatic, high-low
- travel system with auto-shift • SpaceCab™; Highly pressurised
- and tightly sealed viscous mounted cab with tinted safety glass windows, opening roof hatch with

window pull-up type front window

- with locking device, removable lower window, front window wiper with intermittent feature, ashtray, luggage box, floor mat
- Air conditioning
- Track frame undercovers
- Track guiding guards
- (centre + front)
- · Hydraulic track adjusters
- Lockable fuel cap and covers
- · Parts book and operator manual · Fully adjustable heated air
- suspension seat
- · Large handrails and rear-view mirrors
- Lights; 2 front (RH & LH) & 1 boom & cab lights
- Step light with timer
- Electric horn

- Stereo radio cassette · Toolkit and spare parts for first
- service · Remote greasing for swing circle and pins
- 12 V power supply
- Cigarette lighter
- Beverage holder and magazine rack
- Hot and cool box

Bio oil

Rain visor

Lower wiper

- Engine ignition can be password secured on request
- Standard colour scheme and decals

OPTIONAL EQUIPMENT

- 8 m boom and 3,6 m arm
- 7,1 m boom and 2,9 m arm
- 610, 710, 810, 910, 1.010,

1.110 mm wide double grouser shoes

- · Hydraulic control unit for breaker
- (preparation)
- · Boom safety valves
- · Arm safety valves
- OPG Level II top guard (FOPS)
- OPG Level II front guard (FOPS)
- Full length track roller guards
- · High capacity batteries

KOMATSU®

Komatsu Europe International NV

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- - · Extra additional track roller guard
 - (2 per side is std.)

