FLYWHEEL HORSEPOWER 40.5 kW 54 HP @ 1850 rpm

OPERATING WEIGHT

BUCKET CAPACITY 0.28 m³ 0.37 yd³

7190 kg 15,850 lb

KOMATSU®

PC78US-6



COMPACT HYDRAULIC EXCAVATOR

PRODUCTIVITY FEATURES

The PC78US offers high productivity and efficiency in a compact design. Due to the tight tail design of the PC78US-6, operators can focus on the work in front of them and worry less about rear swing impacts. The rigid boom offers unmatched power and makes tough jobs easy.

Powerful Engine With Turbocharger

The engine is EPA Tier 2 emissions certified.

Powerful swing strength increases work efficiency on slopes.

Two working modes give a choice between extra workload and low fuel consumption.

PC78US-6 superior traveling performance also provides higher productivity.



The PC78US features a standard back fill blade that can quickly and conveniently fill trenches and clear up jobsites.

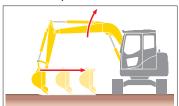


Photo may include optional equipment.

New pressure-compensated Closed-center Load Sensing System (CLSS)0 hydraulic system HydrauMind

Even when 2 or more actuators are operated simultaneously, the PC78US-6's pressure-

compensated CLSS system ensures that each actuator works according to its control input without affecting the size of the load. This gives the operator precise control at all times.



Engine speed sensing=Optimum Power

Power utilized by main pump is adjusted automatically in accordance with the engine speed. That means this computerized system keeps engine speed even under high load condition.

Engine speed sensing not installed



Engine speed can be dropped under high load condition. Maximum pump power must be limited to prevent engine speed down.

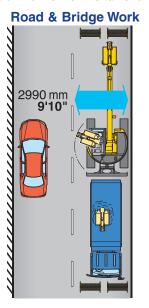


Engine speed is maintained even under high load condition. Pump can utilize full potential power of engine all the time.

Round form uses Tight Tail and Forward Facing Design

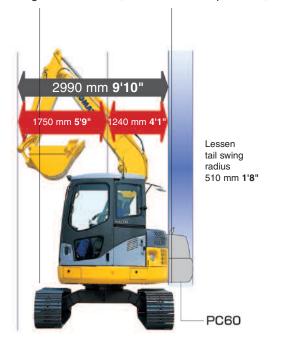
The PC78US design uses a Tight Tail concept for both ends. This makes rotating the machine fast, easy and confident. There is less to worry about in tight space conditions because there is little protrusion from either the tail end or the front end.

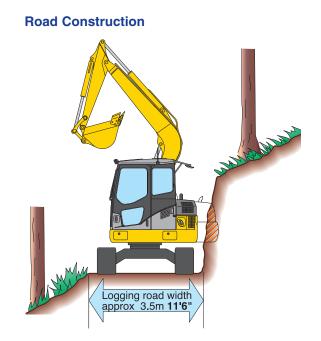




Amazing Round Shape Offers the Same Balance and Control

Although, the PC78US seems smaller, the excavator still offers the same Komatsu balance, control and power of conventional machines. Another advantage of the rigid boom PC78US besides the power is the forward facing cab. The operator always has a direct line of sight to the bucket, which increases precision, confidence and productivity.





OPERATOR ENVIRONMENT

The cab offers comfort and space to help the operator become even more confident and productive. The ergonomically designed features help reduce fatigue and increase focus on the job at hand. The noise levels of the engine already exceed regulated standards, which helps reduce fatigue and can make the operator even more comfortable.

Low noise design cab

73dB(A)





Suspension seat with retractable seat belt

Upper-rail type sliding door opens and closes smoothly



Housing the wiper motor has greatly improved visibility



Fast ventilation and easier communication

Monitor panel improves visual confirmation ability



Large capacity air conditioning system combined with carefully



placed vents provide optimum cool air flow.





Better dump visibility & upper structure



Cup holder

EASY MAINTENANCE

Engine hood can be opened and closed even in confined areas.

Control pattern change valve



Whether you are comfortable with ISO or backhoe control patterns, you can easily and consciously change from one to the other.

Wide-opening side hood makes everyday inspection simpler.

Main valve can be easily inspected.

Window washer tank is easy to check and refill.



Larger opening reduces fuel back splash.



The sloped track frame deters the accumulation of dirt and is easily cleaned.

Air cleaner with easily replaceable element.

Aluminum oil cooler and radiator are corrosion resistant and easy to clean.

One fuel system inspection window for fast and easy maintenance.



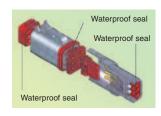
Smaller and longer lasting hydraulic oil filter Ecowhite element.

Battery inspection window enables instant check of liquid level.

Large and accessible toolbox.

Work equipment greasing interval is 250h (100h for armtop only).

DT connector



Water-resistant DT connectors are used for the parts which water will be splashed over.

Face seal



O-ring face seals having high sealing performance are used for the hydraulic piping joints.

PC78US-6 COMPACT HYDRAULIC EXCAVATOR

OPTIONS

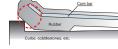
Roadliner Ideal performance has been achieved with combining the merits of rubber and the strengths of steel in the new Road Liner shoes. Road Liners can last up to twice as long as rubber tracks under most normal operating conditions. Similar to all rubber tracks, pavement is not easily damaged. Replacement is fast and easy. Increased cost reductions are possible by replacing only the damaged or worn-out shoes, which differs from the need to replace a full rubber or steel track.



Reinforced Type

Rubber thickness has been upgraded using a new type of

core bar, and this section that is often



sheared, has been reinforced.

Optional Blade



X-Weight

(Additional Counter Weight)



Advanced X-weight design for increased lift capacity and easy installation.



LIFTING CAPACITY

PC78US-6	Arm : 1650mm	5'5" Bucket width	: 650mm 25.0" S	Shoe width : 450mn	n 17.7" Blade on g	round		Unit : kg	
	1.5m 4'		3.0	3.0m 9'		4.5m 14'		Maximum	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
5.5m			*2060	*2060			*2060	*2060	
18'			*4500	*4500			*4500	*4500	
5.0m			*1950	*1950			*1920	*1720	
16'			*4300	*4300			*4200	*3700	
4.0m			*2060	*2060			*1810	1190	
13'			*4500	*4500			*4000	2600	
3.0m			*2460	2340	*1860	1160	*1780	970	
9'			*5400	5100	*4100	2500	*3900	2100	
2.0m			*2970	2190	*1990	1130	*1770	870	
6'			*6500	4800	*4400	2400	*3900	1900	
1.0m			*3310	2060	*2100	1080	*1780	840	
3'			*7300	4500	*4600	2400	*3900	1800	
0.0m			*3330	1990	*2100	1050	*1790	870	
0'			*7300	4300	*4600	2300	*3900	1900	
-1m	*3430	*3430	*3060	1970	*1910	1040	*1780	980	
-3'	*7500	*7500	*6700	4300	*4200	2300	*3900	2100	
-2.0m	*3660	*3660	*2480	2000			*1700	1260	
-6'	*8000	*8000	*5400	4400			*3700	2700	
-3.0m							*1330	*1330	
-9'							*2900	*2900	

*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC78US-6	Arm : 2250mm 7' 5	Bucket width	: 650mm 25.0"	Shoe width: 450mm	17.7" Long arm	with blade on ground	b	Unit:kg lb
	1.5m 4'		3	0m 9 '	4.51	m 14'	Max	imum
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0m			*1720	*1720			*1740	*1740
19'			*3800	*3800			*3800	*3800
5.0m							*1550	1260
16'							*3400	2700
4.0m			*1660	*1660	*1560	1210	*1480	960
13'			*3600	*3600	*3400	2600	*3200	2100
3.0m			*2050	*2050	*1660	1190	*1490	800
9'			*4500	*4500	*3600	2600	*3200	1700
2.0m			*2610	2250	*1830	1140	*1530	730
6'			*5700	4900	*4000	2500	*3300	1600
1.0m			*3090	2090	*1990	1080	*1560	700
3'			*6800	4600	*4400	2400	*3400	1500
0.0m			*3300	1980	*2080	1040	*1580	720
0'			*7200	4300	*4500	2300	*3400	1500
-1m	*2920	*2920	*3210	1930	*2030	1010	*1600	790
-3'	*6400	*6400	*7000	4200	*4400	2200	*3500	1700
-2.0m	*4520	*4520	*2840	1930	*1730	1010	*1590	950
-6'	*9900	*9900	*6200	4200	*3800	2200	*3500	2100
-3.0m	*3390	*3390	*2010	1900			*1490	1370
-9'	*7400	*7400	*4400	4100			*3200	3000
-9'	*7400	*7400	*4400	4100			*3200	

SPECIFICATIONS



ModelKomatsu S4D95LE-3	
Type	
AspirationTurbocharged	
Number of cylinders4	
Piston displacement	
Flywheel Horsepower (SAE J1349 NET) 40.5 kW 54 HP @ 1850 rpm	



YDRAULICS

Intelligence New Design) system, closed-center system with load-sensing valves and pressure-compensated valves

Main pump:

	Type	.Variable displacement axial piston
	Maximum flow 80.0 ltr	x 2 = 160 ltr/min 42.2 U.S. gal /min
	Type (for machine with blade)	Fixed displacement gear
	Maximum flow	60 ltr/min 15.9 U.S. gal/min
	Auxiliary Hydraulic flow	123 ltr/min 32.5 U.S. gal /min
١	/alve rating:	_
	Relief valve setting for implement	

Bucket digging force (ISO)6250 kg **13,780 lb** Arm crowd force (ISO)



ELECTRICAL SYSTEM

Operating voltage24 V	
Battery	
Alternator	
Starter	

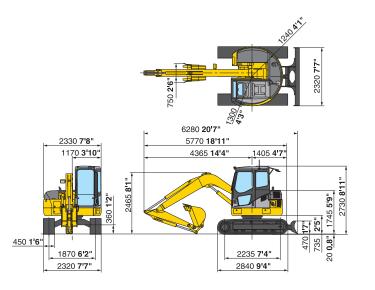


SWING SYSTEM

Drive method	
Swing speed	
180-degree seing width	



DIMENSIONS





DRIVES AND BRAKES

Steering control	Two levers with pedals
Drive method	Fully hydrostatic
Hydraulic motors	Variable displacement, axial piston motors
Maximum drawbar pull	65.2 kN 6650 kg 14661 lb
Maximum travel speed:	
High	4.5 km/h 2.8 mph
Low	3.0 km/h 1.9 mph
Parking brakes	Mechanical disk



UNDERCARRIAGE

Track adjustment of the track tension	Grease
Number of shoes	39 each side
Number of carrier rollers	.1 each side
Number of track rollers	.5 each side
Ground pressure	g/cm ² 4.4 psi



OPERATING WEIGHT (APPROXIMATE)

Operating weight including 1650 mm 5'5" arm, bucket with 0.28 m³ 0.37 yd³ ISO 754 capacity, blade, steel shoes, operator weight, liquids, full fuel tank, and standard equipment.

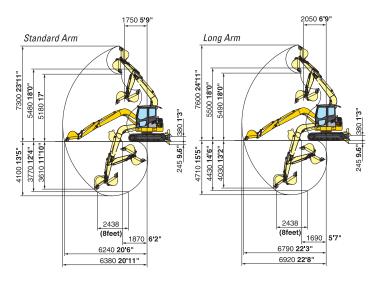
Shoe Width	Operating Weight
450 mm 17.7 "	7190 kg 15,850 lb



COOLANT AND LUBRICANT CAPACITY

Fuel tank	125 ltr 33 US gal
Radiator	10.5 ltr 2.8 US gal
Engine oil (refilling)	7.0–7.5 ltr 1.8–2.0 US gal
Hydraulic (refilling)	64-110 ltr 16.9-29.1 US gal





Package for PC78US-6

Cab	Cab with A/C								
Auxiliary piping		1 With aux piping				2 Without aux piping			
Shoe	А	В	С	D	А	В	С	D	
	Rubber	Road Liner	Steel	Steel Wide	Rubber	Road Liner	Steel	Steel Wide	
	450 mm 17.7 "	450 mm 17.7 "	450 mm 17.7 "	600 mm 23.6"	450 mm 17.7"	450 mm 17.7 "	450 mm 17.7 "	600 mm 23.6 "	
Package	1A	1B	1C	1D	2A	2B	2C	2D	
Arm									
Standard 1650 mm 5'5"					Х	Х	Х	Х	
Long 2250 mm 7'5"					Х	Х	Х	Х	
Std with aux piping 1650 mm 5'5"	Х	Х	Х	Х					
Long with aux piping 2250 mm 7'5"	Х	Х	Х	Х					
Bucket									
3.2 ft³/ 14" (18" w/Cutters)	Х	Х	Х	Х	Х	Х	Х	Х	
4.2 ft³/18" (22" w/Cutters)	Х	Х	Х	Х	Х	Х	Х	Х	
7.1 ft³/22" (26" w/Cutters)	Х	Х	Х	Х	Х	Х	Х	Х	
9.9 ft³/ 26" (30" w/Cutters)	Х	Х	Х	Х	Х	Х	Х	Х	
9.9 ft ³ / 26" (30" w/Cutters)	Х	Х	Х	Х	Х	Х	Х	Х	
12.0 ft ³ / 30" (32" w/Cutters)	Х	Х	Х	Х	Х	Х	Х	Х	
Dozer									
Dozer Assembly 7'7"	In base	In base	In base	In base	In base	In base	In base	In base	
Wide Dozer 8'1"	Х	Х	Х	Х	Х	Х	Х	Х	
Reinforced Dozer with BOCE 7'7"	Х	Х	Х	Х	Х	Х	Х	Х	
Others									
Additional Counter Weight	х	Х	Х	Х	Х	Х	Х	Х	
Additional Working Light	Х	Х	Х	Х	Х	Х	Х	Х	
Window Guard Net	Х	Х	Х	Х	Х	Х	Х	Х	
Heater & Defroster	х	Х	Х	Х	Х	Х	Х	Х	
Radiator Dust Proof Net	Х	Х	Х	Х	Х	Х	Х	Х	
Field Attachments	x	х	Х	x	Х	x	Х	Х	

x: Available



STANDARD EQUIPMENT

- Air cleaner, double element
- Air conditioner
- · AM/FM Radio
- Ashtray
- Blade
- Cab FOPS Level 1
- Cooling fan, suction type
- Engine sensing system
- Pattern change valve (ISO-Backhoe)

- · Rear view mirror
- Retractable seat belt 76 mm 3" wide
- Suspension seat
- Travel alarm
- Two mode system
- Water separator
- Window washer, front



OPTIONAL EQUIPMENT

- · Additional counter weight
- · Additional working light
- Heater & Defroster
- Radiator Dust Proof Net
- · Reinforced blade with BOCE
- Wide blade 2464 mm 8'1"
- · Window Guard Net

PC78US-6						
Bucket Capacity	m³ yd³	0.09 0.12	0.12 0.16	0.20 0.26	0.28 0.37	0.34 0.45
Without Sidecutte	er mm in	350 14	450 18	550 22	650 26	725 29
With Sidecutter	mm in	450 18	550 22	650 26	750 30	825 32
Standard Arm		Χ	Х	Х	Х	Х
Long Arm		Х	Х	Х	N/A	N/A

X: Can be used N/A: Not available

KUSS128-04

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