

KOMATSU®

PC78UU-6

FLYWHEEL HORSEPOWER
40.5 kW 54 HP @ 1850 rpm

OPERATING WEIGHT
7670 kg 16910 lb

BUCKET CAPACITY
0.28 m³ 0.37 yd³



**PC
78UU**



Photos may include optional equipment.

COMPACT HYDRAULIC EXCAVATOR

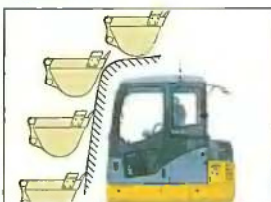


PC78UU-6 Compact Hydraulic Excavator

PRODUCTIVITY FEATURES

Bucket interference prevention system

The bucket automatically stops itself from contact with the cab/canopy. During operation, an alarm sounds and the equipment is stopped if the bucket gets too close to contact. This feature helps maintain operator confidence, which can increase productivity.



**Powerful swing
force increases
work efficiency
on slopes**

Height Limiter

An adjustable boom height limiter can be set prior to operation. When the boom reaches the pre-set height limit, an alarm will sound and the boom automatically stops. This function can help increase productivity by letting operators focus more on digging in tight or confined spaces.

Digital Depth Display

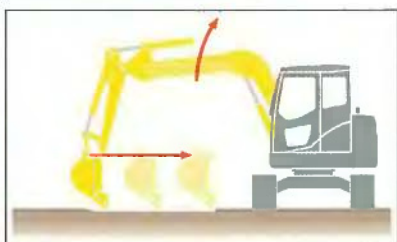
Ditching, trenching, or digging is even more efficient with this automatic depth measurement system. Informing the operator of dig depth from ground level (absolute depth) and the depth from any pre-set point (relative depth) enables work to go much more smoothly and efficiently. This lessens the need for the operator to stop operation or leave the cab after each adjustment, which also increases productivity.



Photo may include optional equipment.

New pressure-compensated CLSS hydraulic system HydrauMind

Even when 2 or more actuators are operated simultaneously, the PC78UU-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 sensing installed



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

Building on the technology and expertise Komatsu has accumulated since its establishment in 1921, GALEO presents customers worldwide with a strong, distinctive image of technological innovation and exceptional value. The GALEO brand will be employed for Komatsu's full lineup of advanced construction and mining equipment. Designed with high productivity, safety and environmental considerations in mind, the machines in this line reflect Komatsu's commitment to contributing to the creation of a better world.

Genuine Answer for Land & Environment Optimization

Two working modes give a choice between high production and low fuel consumption



Ratio of hourly production (%)

Active mode 105

Economy mode 100

Ratio of hourly fuel consumption (%)

Active mode 100

Economy mode 93

PC78UU-6's superior traveling speed and power also provide higher movility

Back fill blade

The PC78UU features a standard back fill blade that can quickly and conveniently fill trenches and clear up jobsites.



Lessen
implement
radius
550mm 1'10"



Lessen
tail swing
radius
510mm 1'8"

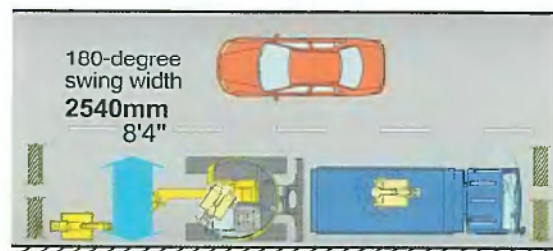
PC60

Round form uses Tight Tail and Forward Facing Design

The PC78UU 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.



Road & Bridge Work



OPERATOR ENVIRONMENT

Comfortable operator's cab

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 low noise levels of the engine helps reduce fatigue and can make the operator even more comfortable.

Low noise design cab

73dB(A)



Photo: Rigid seat

Upper-rail type sliding door opens and closes smoothly



Housing the wiper motor has greatly improved visibility



Air conditioner

Large capacity air conditioning system combined with carefully placed vents provide optimum cool air flow.



Standard equipment



Defroster



Cup holder



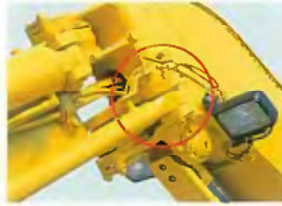
Ceiling window

Suspension seat (optional)



EASY MAINTENANCE

Thin potentiometer adopted and built in



Hydraulic hose built in



Engine hood can be opened and closed even in confined areas

Control pattern change valve(optional)



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

Wide-opening side hood makes daily inspection simpler

Main valve can be easily inspected



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



Window washer tank is easy to check and refill

Smaller and longer lasting hydraulic oil filter: Ecowhite element

Easy check of battery liquid level

Large and accessible toolbox

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

Large fuel filler with strainer



Larger opening reduces fuel back splash.

Inclined track frame top



The track frame is sloped so that dirt will not be accumulate and can be removed easily.

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.

SPECIFICATIONS

ENGINE

Model	Komatsu S4D95LE-3
Type	Water-cooled, 4-cycle, direct injection
Aspirator	Turbocharged
Number of cylinders	4
Piston displacement	3.26 ltr 199 in ³
Flywheel horsepower (SAE J1349 NET)	40.5 kW 54 HP @ 1850 min-1 1850 rpm

HYDRAULIC SYSTEM

Type	HydraMind (Hydraulic Mechanical Intelligence New Design) system, Closed-center system with load-sensing valve and pressure-compensated valve	
Pump:	Variable displacement, axial piston	
For implement	Maximum flow	80.0 ltr x 2 = 160 ltr/min 42.2 USgal/min
For swing and blade	Maximum flow	Fixed displacement gear 60 ltr/min 15.9 USgal/min
Auxiliary Hydraulic flow (opt.)		113 ltr/min 29.9 USgal/min
Valve rating:		
Relief valve setting for implement	270 kg/cm ²	3839psi
Relief valve setting for swing and blade	210 kg/cm ²	2986psi
Bucket digging force (ISO)	6250 kg	13780 lb
Arm crowd force (ISO) with arm length 1720 mm 5'8"	3960 kg	8730 lb

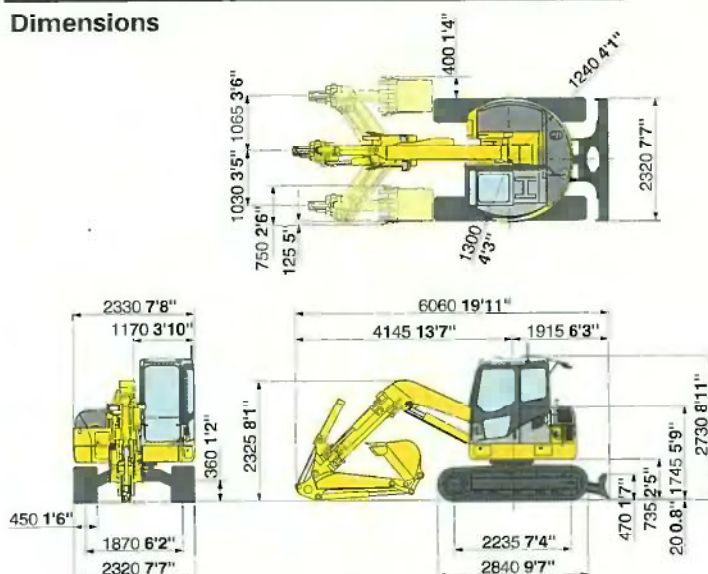
ELECTRIC SYSTEM

Operating voltage	24 V
Battery	55 Ah
Alternator	25 A
Starter	3.0 kW

SWING SYSTEM

Driven method	Hydrostatic
Swing speed	10.0 rpm
180-degree swing width	2540 mm 8'4"

Dimensions



DRIVES AND BRAKES

Steering control	Two levers with pedals
Drive method	Fully hydrostatic
Hydraulic motors	Variable displacement, axial piston motors
Maximum drawbar pull	65.1 kN 6640 kg 14639 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	0.33 kg/cm ² 4.7 psi

OPERATING WEIGHT (APPROXIMATE)

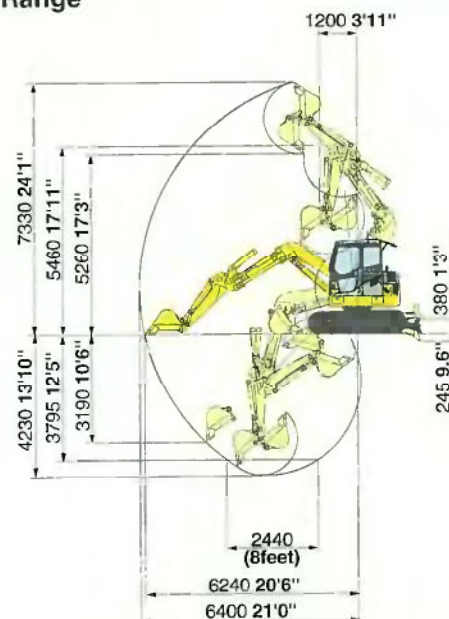
Operating weight including 1720 mm 5'8" arm, bucket with 0.28 m³ 0.37 yd³ capacity, blade, operator, lubricant, full fuel tank, and standard equipment.

Shoe Width	Operating Weight
450 mm 17.7"	7670 kg 16,910 lb

COOLANT AND LUBRICANT CAPACITY

Fuel tank	125 ltr 33 USgal
Radiator	10.5 ltr 2.8 USgal
Engine Oil (Refilling)	7.5(7.0) ltr 2.0(1.8) USgal
Hydraulic (Refilling)	110(64) ltr 29.1(16.9) USgal

Working Range



LIFTING CAPACITY

PC78UU-6 Arm : 1720mm 5'8" Bucket width : 650mm 25.6" Shoe width : 450mm 17.7" Blade on ground								
	1.5m 4'		3.0m 9'		4.5m 14'		Maximum	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0m 19'							*2150 *4750	*2150 *4750
5.0m 16'			*2590 *5710	2530 5590			*1810 *3990	1730 3810
4.0m 13'			*2750 *6060	2480 5480			*1760 *3890	1140 2530
3.0m 9'	*6430 *14170	*6430 *14170	*3200 *7050	2300 5070	*2350 *5190	1080 2380	*1830 *4030	890 1970
2.0m 6'			*3750 *8260	2030 4490	*2490 *5490	1010 2230	*1990 *4390	770 1700
1.0m 3'			*4060 *8950	1810 3990	*2580 *5700	940 2070	*2200 *4850	720 1590
0.0m 0'			*3970 *8760	1690 3740	*2540 *5600	880 1950	*2200 *4850	730 1620
-1m -3'	*3640 *8030	*3640 *8030	*3550 *7840	1670 3680	*2250 *4970	860 1910	*2160 *4770	830 1840
-2.0m -6'	*3690 *8130	*3690 *8130	*2760 *6100	1710 3770			*2020 *4460	1110 2440
-3.0m -9'							*1340 *2970	*1340 *2970

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

STANDARD EQUIPMENT

- Air cleaner, single element
- Cooling fan, suction type
- Rear view mirror, RH
- Window washer, front
- Rigid seat
- Seat belt
- Heater & Defroster
- Ashtray
- Water separator
- One-touch decelerator
- Shoes, -450mm 17.7" Triple grouser
- Blade

OPTIONAL EQUIPMENT

- Air cleaner, double element
- Suspension seat
- Air conditioner
- Sunvisor
- Fire extinguisher
- Travel alarm
- Tool kit
- Shoes, -450mm 17.7" Road-Liner
- Shoes, -450mm 17.7" Rubber

Bucket Capacity	m ³	yd ³	0.09	0.12	0.12	0.16	0.20	0.26	0.28	0.37	0.34	0.45
Width, without Sidecutter	mm	in	350	14	450	18	550	22	650	26	725	29
Width, with Sidecutter	mm	in	450	18	550	22	650	26	750	30	825	32

ROAD-LINER (optional)

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 conventional rubber tracks under most normal operating conditions.**

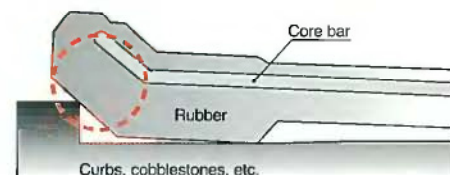
Similar to all rubber tracks, pavement is not easily damaged.

Replacement is fast and easy. Repair 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.



Form No. HESS3292

Printed in Japan 200212 IP.As(10)

KOMATSU[®]