

PC128US-2

KOMATSU[®]

NET HORSEPOWER
64 kW 86 HP

OPERATING WEIGHT
13030 – 13400 kg
28,730 – 29,540 lb

BUCKET CAPACITY
0.35 – 0.67 m³
0.46 – 0.88 yd³



PC128US-2

HYDRAULIC EXCAVATOR

PC128US-2 Hydraulic Excavator

WALK-AROUND

Working in congested or confined areas can be a challenge. Komatsu's PC128US-2 hydraulic excavator has a short tail swing profile, designed for work in confined areas. By reducing tail swing, the PC128US-2 can work in areas where conventional profile excavators would pose a safety risk. Perfect for work on roadways, bridge work, urban areas, or anywhere space is limited, the PC128US-2 provides you with the performance and productivity you expect from Komatsu equipment.

Comfortable cab

- The PC128US-2 employs a new convex shape, large size cab that provides ample space from head to toe and side to rear.
- Komatsu's low noise design cab uses viscous cab mounting for reduced noise.
- Sliding convex door facilitates easy entrance in confined areas and reduces the danger of being damaged on roadways because the door does not protrude when open.



Intermittent wiper is useful for light rain.

High mobility

Large drawbar pull and steering force display its ability when operating on a slope.

Small road occupied width

Komatsu's PC128US-2 occupies a road width of 3.46 m **11'4"** or less. This allows the machine to work on either side of a 7 m **23'** wide lane without having to close both sides of the road.

Oil cooler

provides excellent thermal conductivity, improving heat balance without increasing the fan rotating speed, which contributes to reducing the noise level.



Wide working ranges

Maximum digging height of the PC128US-2 is larger than that of the PC120-6. Raising the boom on the PC128US-2 to a wider angle enhances overall working performance. Job sites that require a long upper reach, such as demolition and slope cutting, also benefit from the increased digging and dumping ranges of the PC128US-2.

Rear window opens to improve cab ventilation.



Safe operation

The PC128US-2's round form reduces the operator's need to constantly check behind him for movement, as he would with a conventional profile machine.

High stability

The PC128US-2 offers exceptional lifting capacity and high stability with a large counterweight that requires no additional clearance.

Rearview mirror

provides view under counterweight for improved safety.

Pump/engine room partition

prevents oil from spraying on the engine if a hydraulic hose should burst.

FLYWHEEL HORSEPOWER

64 kW **86 HP** @ 2200 rpm

OPERATING WEIGHT

13030 – 13400 kg

28,730 – 29,540 lb

BUCKET CAPACITY

0.35 – 0.67 m³

0.46 – 0.88 yd³

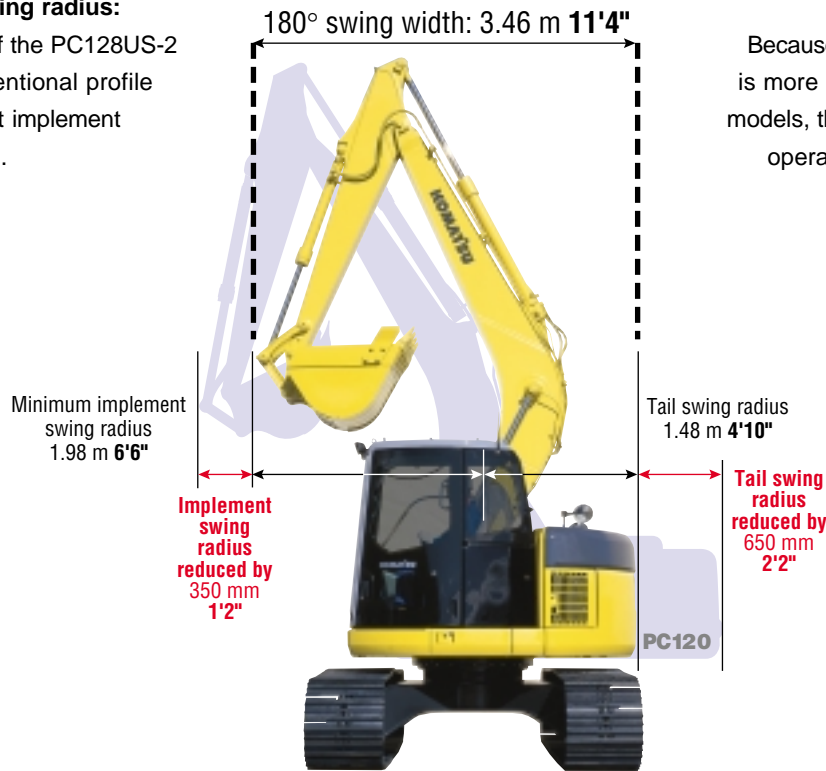


PRODUCTIVITY FEATURES

Safe Operation With Small Tail Swing Even in Confined Areas

Short implement swing radius:

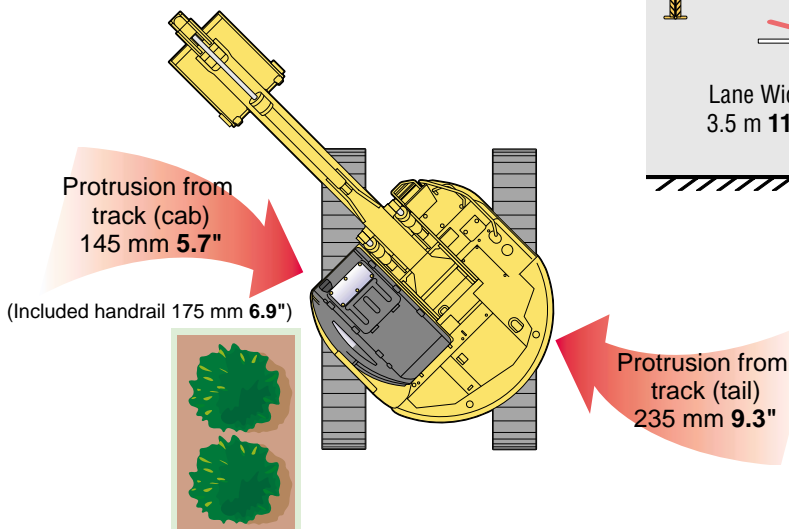
Boom raising angle of the PC128US-2 is larger than a conventional profile excavator, while front implement protrusion is lessened.



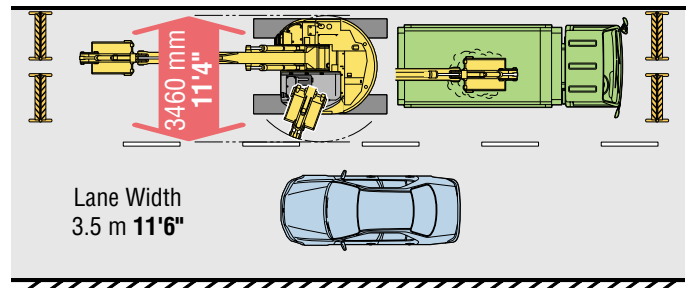
Short tail swing radius:

Because the tail of the PC128US-2 is more compact than conventional models, the PC128US-2 reduces the operator's need to check behind him for movement.

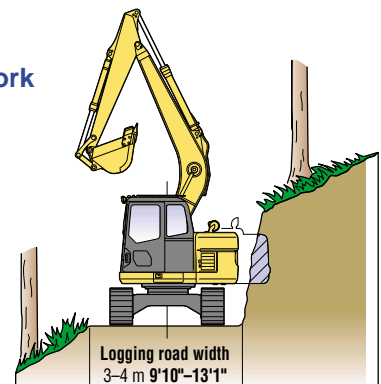
Track Protrusion



Road and Bridge Work



Logging Road Work



Excellent Productivity

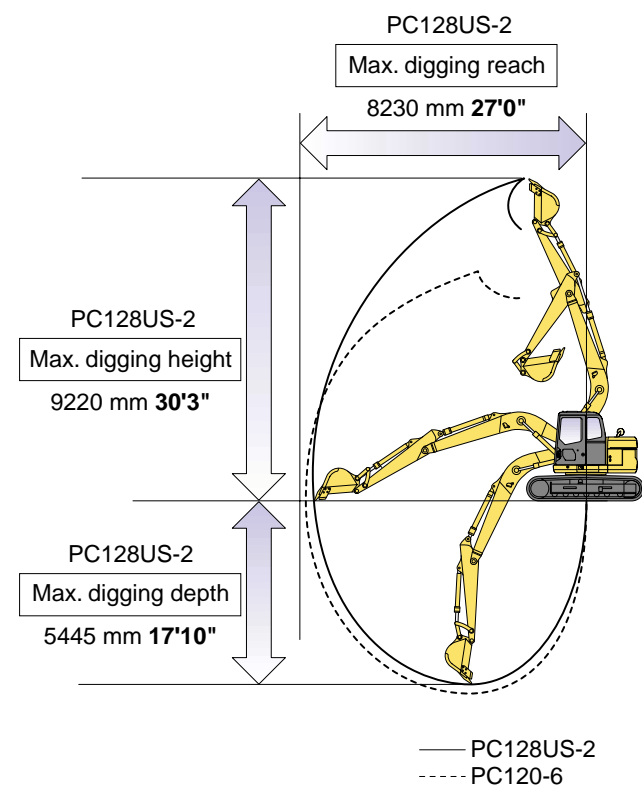
Engine

The PC128US-2 gets its exceptional power and work capacity from the Komatsu S4D102E engine. Output is 64 kW **86 HP**, giving you increased hydraulic power while improving fuel efficiency. The engine meets emissions regulations, including CARB, EPA, and EC, and noise levels have been reduced for greater operator comfort.

Wider Working Ranges

Raising the boom on the PC128US-2 to a wider angle enhances overall working performance.

Job sites that require a long upper reach, such as demolition and slope cutting, also benefit from the increased digging and dumping ranges of the PC128US-2.



	PC128US-2	PC120-6
Maximum digging height	9220 mm 30'3"	8610 mm 28'3"
Maximum digging depth	5445 mm 17'10"	5520 mm 18'1"
Maximum dumping height	6870 mm 22'6"	6170 mm 20'3"

Large Digging Force

The PC128US-2 has the largest bucket digging force and arm crowd force, facilitating digging hard rock-bed. Digging force ISO rating.

	PC128US-2	PC120-6*
Bucket digging force	9500 kg 20,940 lb	9520 kg 20,990 lb
Arm crowd force	6300 kg 13,890 lb	6500 kg 14,330 lb

*PC120-6 measured with power max.

High Stability

The PC128US-2 offers exceptional lifting capacity and high stability with a large counterweight that requires no additional clearance.

	PC128US-2	PC120-6
Lifting capacity*	1150 kg 2,500 lb	1150 kg 2,500 lb
Weight of counterweight	3400 kg 7,496 lb	2255 kg 4,960 lb

*At maximum reach, ground level height and overside.

WORKING ENVIRONMENT

The PC128US-2 cab interior is spacious and provides a comfortable working environment...

Large Operator's Cab

Large Size Cab

The PC128US-2 employs a new convex shape, large size cab that provides ample space from head to toe and side to rear.

Multi-Position Controls

The multi-position, pressure proportional control levers allow the operator to work in comfort while maintaining precise control.

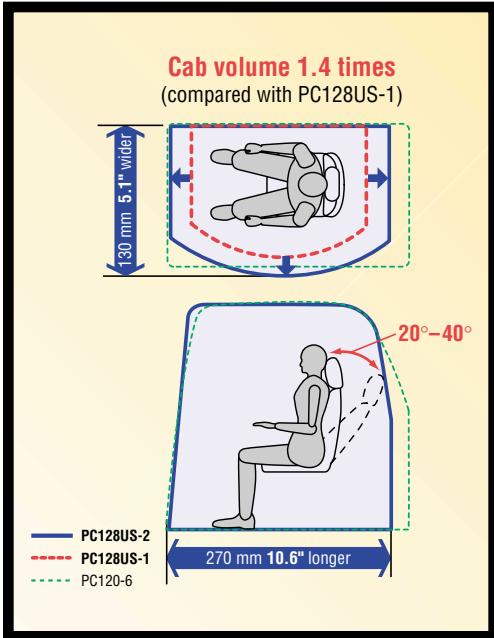
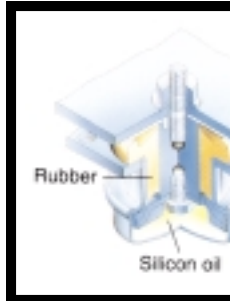
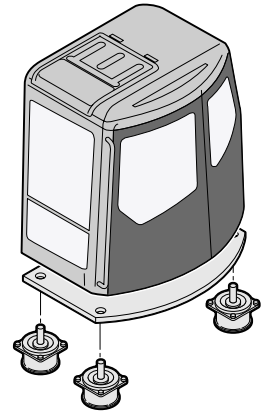
A double-slide mechanism allows the seat and controllers to move together or independently, allowing the operator to position the controllers for maximum productivity and comfort.

Cab Mount

The cab rests on viscous damping mounts to reduce vibration and noise from the machine body. Operator fatigue is reduced.

Sliding Convex Door

The sliding convex door facilitates entrance in confined areas and reduces the danger of being damaged on roadways because the door does not protrude when open.



Low Noise

Komatsu's low noise design uses a partition between the cab and engine room, an airtight valve room, and viscous cab mounts to reduce noise levels at operator's ear from 80 to 73 dB(A).



Washable Floor

The PC128US-2's floor is easy to keep clean. The gently inclined surface has a flanged floor mat and drainage holes to facilitate runoff.

Skylight



PC128US-2

HYDRAULIC EXCAVATOR



WARNING



MAINTENANCE FEATURES

Easy Maintenance

Komatsu designed the PC128US-2 to have easy service access. By doing so, routine maintenance and servicing are less likely to be skipped, which can mean a reduction in costly downtime later on. Here are some of the many service features found on the PC128US-2.

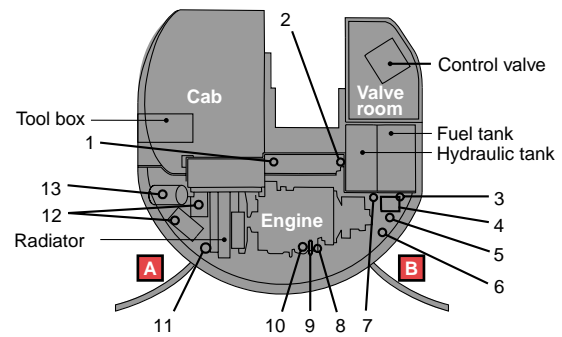
Optimum Maintenance Layout

With the newly added left and right side service doors, it is possible to access the major maintenance points from ground level.

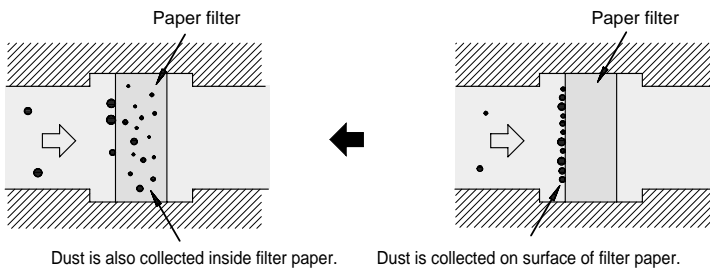
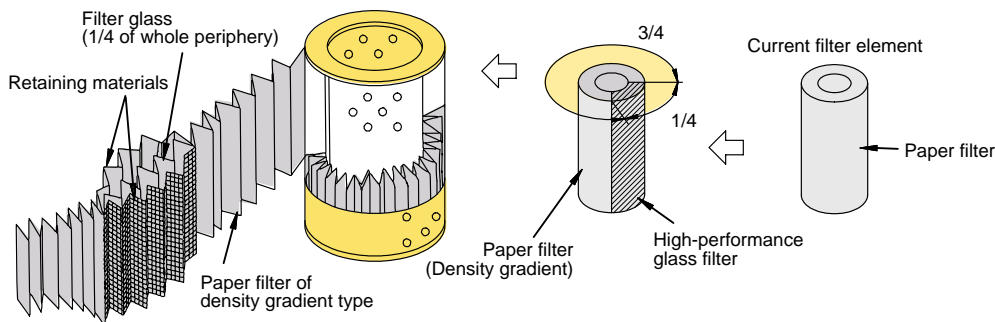
Furthermore, the fuel drain valve, engine oil filter, swing machinery oil filler, and PTO oil filler are remote mounted, facilitating easy maintenance.

New Hybrid Filter Element

The new hybrid element in the hydraulic circuit filter extends the element replacement interval to 500 hours and the hydraulic oil replacement interval to 5,000 hours.



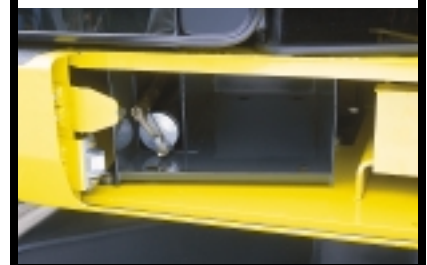
- | | |
|-------------------------------|----------------------------|
| 1. Swing machinery oil filler | 8. Engine oil filter |
| 2. Swing machinery dipstick | 9. Engine oil dipstick |
| 3. Water separator (option) | 10. Fuel filter |
| 4. Coolant reserve tank | 11. Windshield washer tank |
| 5. Fuel drain valve | 12. Batteries |
| 6. PTO oil filler | 13. Air cleaner |
| 7. Engine oil filter | |



- High-performance glass-type filter is employed for 25% of the total filter area.
- Pore gradient-type paper media is used.
- The filter area is larger and has a longer life than pore gradient-type paper media because it collects dust three-dimensionally.

Large Tool Box

Large tool box provides plenty of space. Grease pump storage space is also provided.

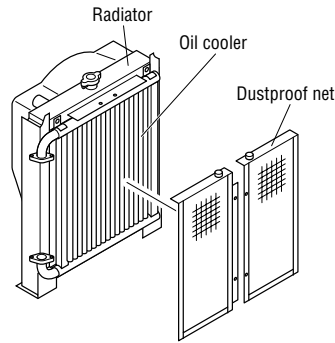


Safety Features

Excellent Reliability

Dustproof Radiator Net

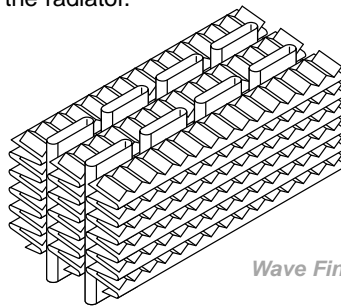
The dustproof radiator net prevents dust from entering into the radiator core and causing engine overheating.



Dustproof Radiator Net

Wave Fin Radiator

A high cooling efficiency wave fin is used on the radiator.



Wave Fin Radiator

Dual Filter Air Cleaner

A dual filter air cleaner is employed to prevent dust from entering the engine.

Metal Guard Ring

The metal guard ring protects all the hydraulic cylinders from seizure and improves reliability.

Double Lock Connectors

The double lock connectors prevent electrical connections from loosening during operation.



Pump/engine room partition prevents oil from spraying on the engine if a hydraulic hose should burst.

Large handrail is installed for getting on/off machine cab safely.

Steps with no-skid sheet provide anti-skid footing for maintenance.



Boom holding valve reduces hydraulic drift of boom.



SPECIFICATIONS



ENGINE

Model Komatsu S4D102E
 Type 4-cycle, water-cooled, direct injection
 Aspiration Turbocharged
 Number of cylinders 4
 Bore 102 mm **4.05"**
 Stroke 120 mm **4.76"**
 Piston displacement 3.92 ltr **239 in³**
 Flywheel horsepower 64 kW **86 HP** @ 2200 rpm (SAE J1349)
 Governor All-speed, mechanical



HYDRAULIC SYSTEM

Type HydrauMind (Hydraulic Mechanical Intelligence New Design) system.
 Closed-center system with load-sensing valve and pressure-compensated valve.

Main pump:
 Type Variable-capacity piston type
 Pumps for Boom, arm, bucket, swing, and travel circuits
 Maximum flow 226 ltr/min **59.7 U.S. gal/min**

Hydraulic motors:
 Travel 2 x piston motor with parking brake
 Swing 1 x piston motor with swing holding brake

Relief valve setting:
 Implement circuits 325 kg/cm² **4,620 psi**
 Travel circuits 355 kg/cm² **5,050 psi**
 Swing circuits 280 kg/cm² **3,980 psi**
 Pilot circuit 30 kg/cm² **430 psi**

Hydraulic cylinders:
 (Number of cylinders – bore x stroke)
 Boom 2 – 105 mm x 1055 mm **4.1" x 41.5"**
 Arm 1 – 115 mm x 1175 mm **4.5" x 46.3"**
 Bucket 1 – 95 mm x 885 mm **3.7" x 34.8"**



SWING SYSTEM

Driven by Hydraulic motor
 Swing reduction Planetary gear
 Swing circle lubrication Grease-bathed
 Swing lock Wet, multiple-disc brake
 Swing speed 12.0 rpm



STANDARD EQUIPMENT

- Air cleaner, double element with auto dust evacuation
- Air conditioner/heater
- Alternator, **25 A**
- Batteries, 110 Ah/2 x **12 V**
- Boom holding valve
- Cab which includes: antenna, AM/FM radio, floormat, intermittent wiper and washer, large ceiling hatch, pull-up front window, openable rear window, rearview mirror, removable lower windshield, sliding seat with **3"** seat belt, tinted safety glass
- Cooling fan, mixed flow with fan guard
- Corrosion resister



DRIVES AND BRAKES

Steering control Two-lever
 Drive method Hydrostatic
 Travel motor Axial piston motor, in-shoe design
 Reduction system Planetary double reduction
 Maximum drawbar pull 11,100 kg **24,470 lb**
 Maximum travel speed: High 5.1 km/h **3.2 mph**
 Low 2.4 km/h **1.5 mph**

Service brake Hydraulic lock
 Parking brake Oil disc brake



UNDERCARRIAGE

Center frame X-leg frame
 Track frame Box-section
 Seal of track Sealed track
 Track adjuster Hydraulic
 Number of shoes 42 each side
 Number of carrier rollers 1 each side
 Number of track rollers 7 each side



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 200 ltr **52.8 U.S. gal**
 Radiator 18.2 ltr **4.8 U.S. gal**
 Engine 17.0 ltr **4.5 U.S. gal**
 Final drive, each side 2.5 ltr **0.7 U.S. gal**
 Swing drive 2.5 ltr **0.7 U.S. gal**
 Hydraulic tank 69.0 ltr **18.2 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight including 4600 mm **15'1"** one-piece boom, 2500 mm **8'2"** arm, SAE heaped 0.44 m³ **0.58 yd³** backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

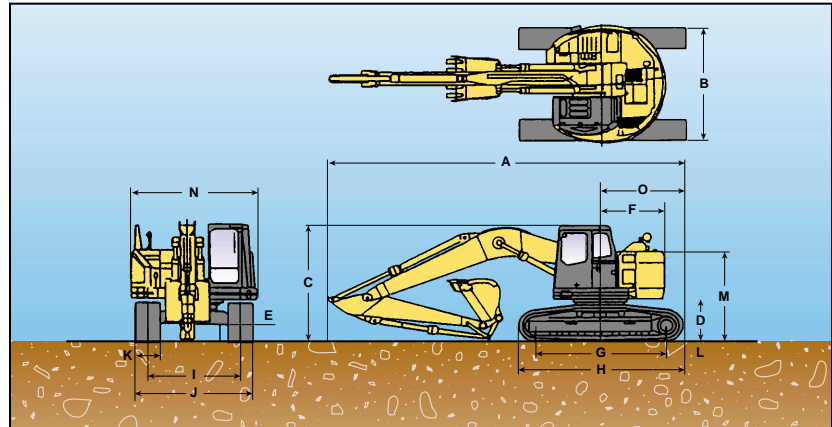
Shoes	Operating Weight	Ground Pressure
500 mm 20"	13030 kg 28,730 lb	6.11 psi
600 mm 24"	13215 kg 29,134 lb	5.12 psi
700 mm 28"	13400 kg 29,541 lb	4.55 psi

- Counterweight, 3400 kg **7,496 lb**
- Dustproof net for radiator and oil cooler
- Instrument panel
- Light, one front
- Pump/engine room partition cover
- Shoes, 600 mm **24"**, triple grouser
- Starting motor, 4.5 kW
- Travel alarm
- Travel pedals
- Turbocharger exhaust manifold cover
- Vandalism protection provision tabs



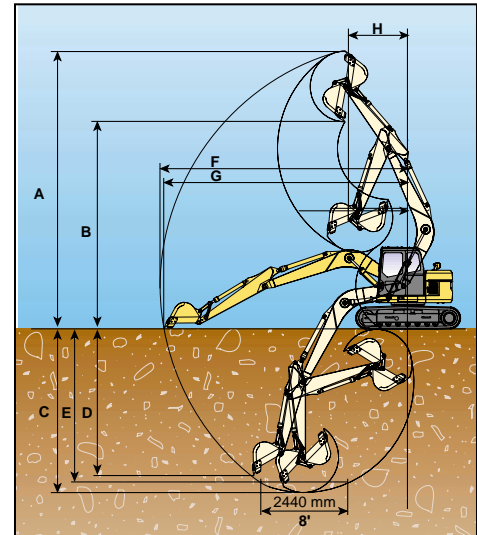
DIMENSIONS

	Boom length	4600 mm 15'1"	4600 mm 15'1"	4600 mm 15'1"
	Arm length	2100 mm 6'11"	2500 mm 8'2"	3000 mm 9'10"
A	Overall length	7225 mm 23'8"	7225 mm 23'8"	7120 mm 23'4"
B	Overall width	2500 mm 8'2"	2500 mm 8'2"	2500 mm 8'2"
C	Overall height (to top of cab)	2730 mm 8'11"	2730 mm 8'11"	2730 mm 8'11"
D	Ground clearance, counterweight	885 mm 2'10"		
E	Minimum ground clearance	390 mm 1'3"		
F	Tail swing radius	1480 mm 4'10"		
G	Length of track on ground	2750 mm 9'0"		
H	Track length	3480 mm 11'5"		
I	Track gauge	1990 mm 6'6"		
J	Width of crawler	2500 mm 8'2"		
K	Shoe width	500 mm 20"		
L	Grouser height	25 mm 1"		
M	Machine cab height	1935 mm 6'4"		
N	Upper structure width	2500 mm 8'2"		
O	Distance, swing center to rear end	1725 mm 5'8"		
	Blade width	2470 mm 8'1"		
	Blade height	590 mm 1'11"		
	Implement offset from swing center	182 mm 7.2"		
	Blade distance from swing center	2365 mm 7'9"		



WORKING RANGE AND BUCKET/ARM COMBINATION

	Boom	4600 mm 15'1"	4600 mm 15'1"	4600 mm 15'1"
	Arm	2100 mm 6'11"	2500 mm 8'2"	3000 mm 9'10"
A	Maximum digging height	8905 mm 29'3"	9220 mm 30'3"	9655 mm 31'8"
B	Maximum dumping height	6555 mm 21'6"	6870 mm 22'6"	7305 mm 24'0"
C	Maximum digging depth	5040 mm 16'6"	5445 mm 17'10"	5945 mm 19'6"
D	Maximum vertical wall digging depth	4505 mm 14'9"	4900 mm 16'1"	5385 mm 17'8"
E	Maximum digging depth of cut for 2440 mm 8' level	4805 mm 15'9"	5235 mm 17'2"	5760 mm 18'10"
F	Maximum digging reach	7860 mm 25'9"	8230 mm 27'0"	8720 mm 28'7"
G	Maximum digging reach at ground	7730 mm 25'4"	8110 mm 26'7"	8600 mm 28'3"
H	Minimum swing radius	1745 mm 5'9"	1980 mm 6'6"	2250 mm 7'5"
	Bucket digging force	9000 kg 19,840 lb	9500 kg 20,940 lb	9000 kg 19,840 lb
	Arm crowd force	7300 kg 16,090 lb	6300 kg 13,890 lb	5700 kg 12,570 lb



BACKHOE BUCKET AND ARM COMBINATION

Bucket Type	Bucket						Arms				
	Capacity		OLW	Weight		Number of Teeth	Tooth Size	6'11"	8'2"	9'10"	
Komatsu "H" Series HD	0.35 m ³	0.46 yd³	610 mm	24"	421 kg	928 lb	4	X220	V	V	V
	0.50 m ³	0.65 yd³	762 mm	30"	463 kg	1,021 lb	5	X220	V	V	W
	0.60 m ³	0.79 yd³	914 mm	36"	525 kg	1,157 lb	5	X220	W	X	Y
Komatsu "H" Series SD	0.70 m ³	0.92 yd³	1067 mm	42"	564 kg	1,244 lb	6	X220	X	Y	Z
	0.34 m ³	0.44 yd³	610 mm	24"	441 kg	972 lb	4	X220	V	V	W
	0.45 m ³	0.59 yd³	762 mm	30"	509 kg	1,122 lb	5	X220	V	V	W
	0.56 m ³	0.73 yd³	914 mm	36"	581 kg	1,280 lb	5	X220	W	X	Y
	0.67 m ³	0.88 yd³	1067 mm	42"	652 kg	1,437 lb	6	X220	X	X	Z

V – Used with weights up to 3,500 lb/yd³, W – Used with weights up to 3,000 lb/yd³
 X – Used with weights up to 2,500 lb/yd³, Y – Used with weights up to 2,000 lb/yd³, Z – Not useable



OPTIONAL EQUIPMENT

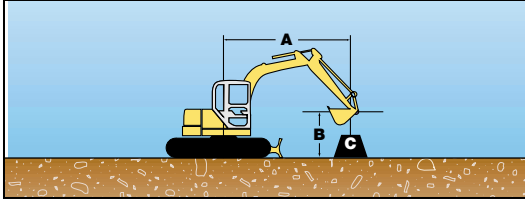
- Arm
 - 2100 mm **6'11"**
 - 2500 mm **8'2"**
 - 2500 mm **8'2"** with piping
 - 3000 mm **9'10"**
- Blade assembly
- Hydraulic control unit
 - 1 additional actuator
- Shoes, triple grouser
 - 500 mm **20"**
 - 700 mm **28"**
- Shoes, rubber shoe
 - 500 mm **20"**
- Track guiding guards
- Track under cover

SOLD ONLY WITH BUCKET

- Lug bushing
- Play adjustment mechanism



LIFTING CAPACITY



Equipment:

- Boom: 4.6 m **15'1"**
- Bucket: 0.44 m³ **0.58 yd³**
- Shoes: 500 mm **20"**

- A: Reach from swing circle
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗: Rating at maximum reach

PC128US-2		Shoe: 500 mm 20"		Arm: 2.1 m 6'11"		Unit: kg lb			
B	A	3.0 m 10'		4.6 m 15'		6.1 m 20'		⊗ Maximum	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.1 m 20'				*3300 *7,300	3050 6,800			*2200 *4,800	*2200 *4,800
3.0 m 10'		*5800 *12,800	5450 12,000	*3950 *8,700	2750 6,100	2400 5,300	1700 3,700	*2000 *4,400	1400 3,000
0.0 m 0'		*6750 *14,900	4400 9,700	3400 7,600	2300 5,100	2250 5,000	1500 3,300	*1900 *4,200	1300 2,800
-3.0 m -10'		*6150 *13,600	4400 9,700	3500 7,700	2350 5,200			2800 6,200	1900 4,200

PC128US-2		Shoe: 500 mm 20"		Arm: 2.5 m 8'2"		Unit: kg lb			
B	A	3.0 m 10'		4.6 m 15'		6.1 m 20'		⊗ Maximum	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.1 m 20'								*1750 *3,900	*1750 *3,900
3.0 m 10'		*5000 *11,000	*5000 *11,000	*3650 *8,000	2800 6,200	2450 5,400	1700 3,700	*1700 *3,700	1200 2,600
0.0 m 0'		*6800 *15,000	4400 9,700	*3550 *7,800	2400 5,300	2250 5,000	1500 3,300	1750 3,900	1150 2,500
-3.0 m -10'		*6250 *13,800	4350 9,600	3450 7,600	2350 5,200			2400 5,300	1650 3,600

PC128US-2		Shoe: 500 mm 20"		Arm: 3.0 m 9'10"		Unit: kg lb			
B	A	3.0 m 10'		4.6 m 15'		6.1 m 20'		⊗ Maximum	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.1 m 20'				*2500 *5,500	*2500 *5,500	*1850 *4,100	1850 4,100	*1400 *3,100	*1400 *3,100
3.0 m 10'		*3800 *8,400	*3800 *8,400	*3400 *7,500	2850 6,300	2450 5,400	1700 3,700	*1300 *2,900	1050 2,300
0.0 m 0'		7100 15,700	4400 9,700	*3550 *7,800	2350 5,200	2200 4,900	1450 3,200	*1500 *3,300	1000 2,200
-3.0 m -10'		*6750 *14,900	4200 9,300	3350 7,400	2150 4,700	2150 4,700	1400 3,100	2000 4,400	1350 2,900

* 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.

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