KOMATSU

PC
128

PC128US-2

PC128US-2

Hydraulic Excavator

NET HORSEPOWER
64 kW/86 HP

OPERATING WEIGHT
13.000-13.370 kg

BUCKET CAPACITY
0,18-0,55 m^3

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, urban areas, or anywhere space is limited, the PC128US-2 provides you with the performance and productivity you expect from Komatsu equipment.

Larger cab

- Komatsu's low noise design cab is a fully pressed high-rigidity cab using 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.
- Komatsu's large cab meets ISO working space standards to provide secure, safe, and comfortable operation.

High mobility

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

Intermittent wiper

is useful for light rain.

Small road occupied width

Komatsu's PC128US-2 occupies a road width of 3,46 m or less. This allows the machine to work on either side of a 7 m wide lane without having to close both sides of the road.

Aluminum-made oil cooler

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

FLYWHEEL HORSEPOWER
64 kW 86 HP @ 2.200 rpm

OPERATING WEIGHT
13.000 - 13.370 kg

BUCKET CAPACITY
0,18 - 0,55 m^3

Wide working ranges

Maximum digging height of the PC128US-2 is larger than that of the PC130-6. 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 slides

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 cast-iron 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.

PRODUCTIVITY FEATURES

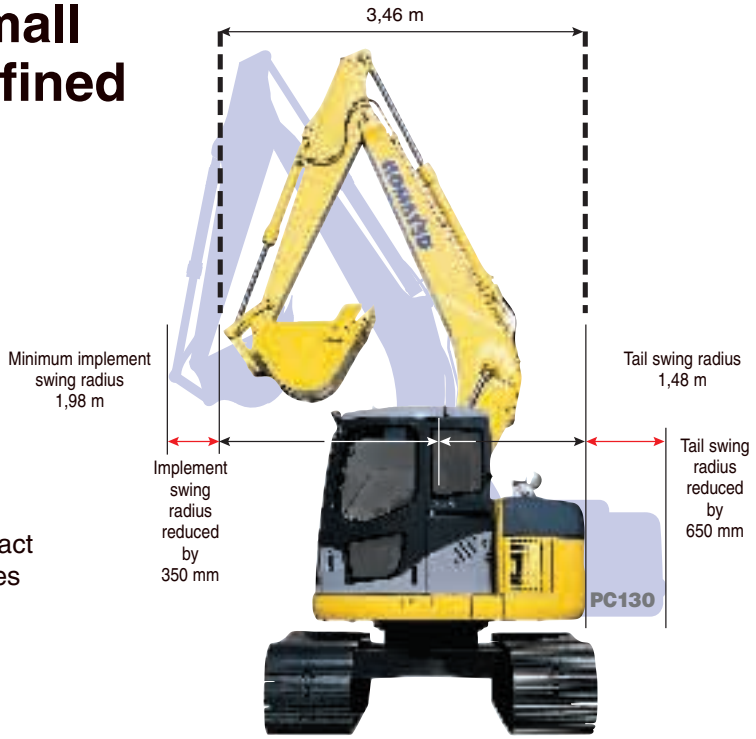
Safe Operation With Small Tail Swing Even in Confined Areas

Short implement swing radius:

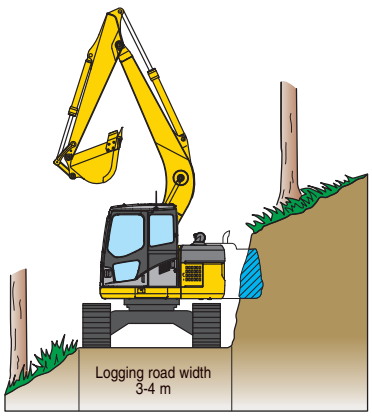
Boom raising angle of the PC128US-2 is larger than a conventional profile excavator, while front implement protrusion is lessened.

Short tail swing radius:

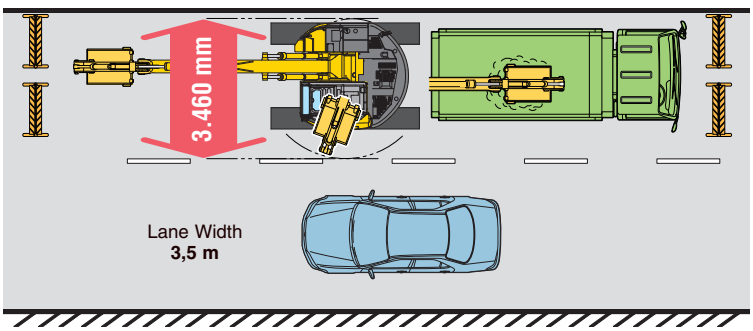
Because the tail of the PC128US-2 is more compact than conventional models, the PC128US-2 reduces the operator's need to check behind him for movement.



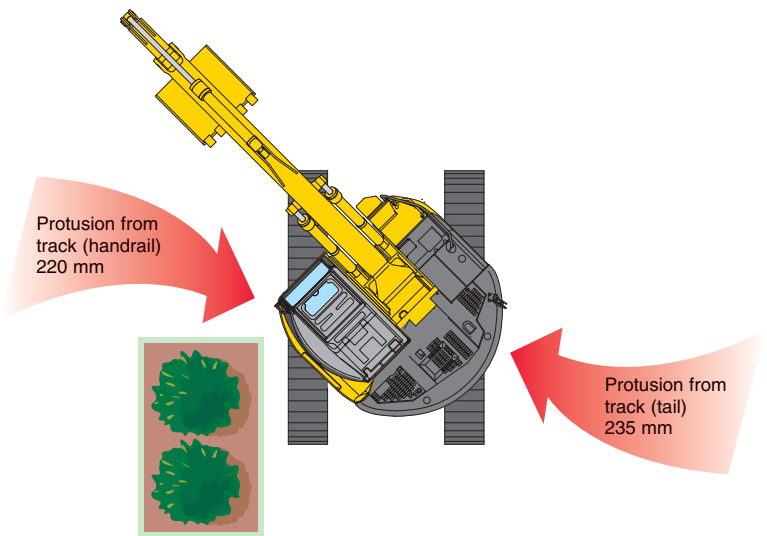
Logging Road Work



Road Work



Track Protrusion



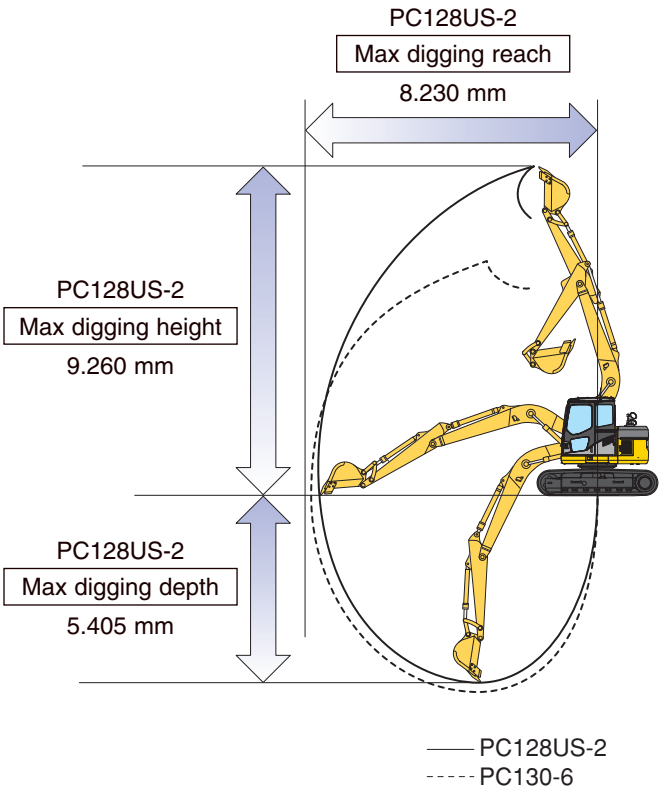
Excellent Productivity

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	PC130-6
Maximum digging height	**9.260 mm**	**8.610 mm**
Maximum digging depth	**5.405 mm**	**5.520 mm**
Maximum dumping height	**6.910 mm**	**6.170 mm**

Equipped with 2,5 m arm

Large Digging Force

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

	PC128US-2	PC130-6*
Bucket digging force	**9.500 kg**	**8.500 kg**
Arm crowd force	**6.300 kg**	**6.300 kg**

*PC130-6 measured with power max. with 2,5 m arm

High Stability

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

	PC128US-2	PC130-6
Lifting capacity*	**1.150 kg**	**1.150 kg**
Weight of counterweight	**3.020 kg**	**2.255 kg**

*At maximum reach, ground level height and overside. Using 500 mm shoes and 2,5 m arm

Easy operation

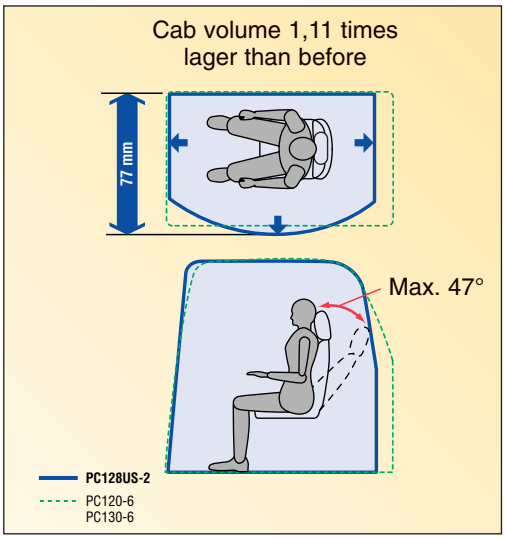
Self-Diagnostic System

The PC128US-2 features one of the most advanced diagnostic systems in the industry. Komatsu's exclusive system identifies maintenance items, reduces diagnostic time, and helps you maintain maximum production.

Working Mode	Application	Advantage
A	Active Mode	• Maximum production/power • Fast cycle times
E	Economy Mode	• Good cycle times • Good fuel economy
B	Breaker Operations	• Optimum engine rpm, hydraulic flow, and pressure

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.

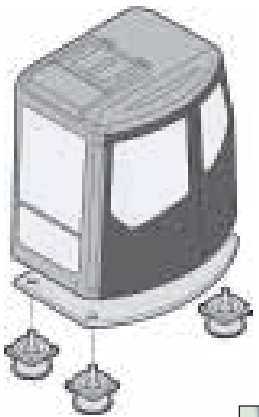

Skylight

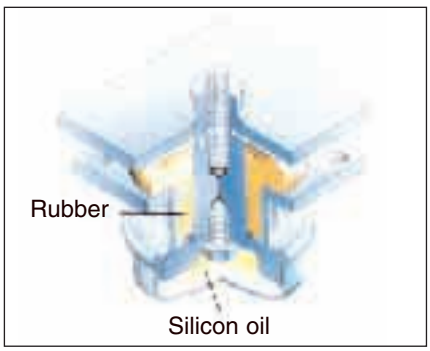
Low Noise

Komatsu's low noise design uses a partition between the cab and engine room, an airtight valve room, and viscous cab mounting to reduce dynamic noise levels to 75 dB(A) at operator's ear. (according iso 6396)

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.

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.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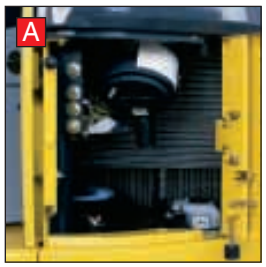
MAINTENANCE FEATURES

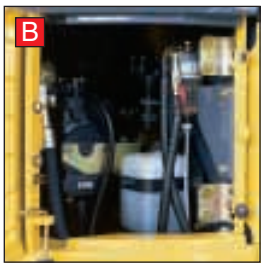
Easy Maintenance

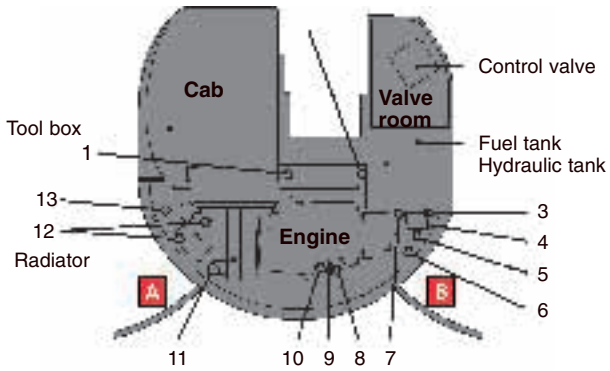
Komatsu designed the PC128US-2 to have easy service access. By doing so, routine maintenance and servicing are less likely to be skipped, which can mean a reduction in costly downtime later on. Here are some of the many service features found on the PC128US-2.

Optimum Maintenance Layout

With the 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.



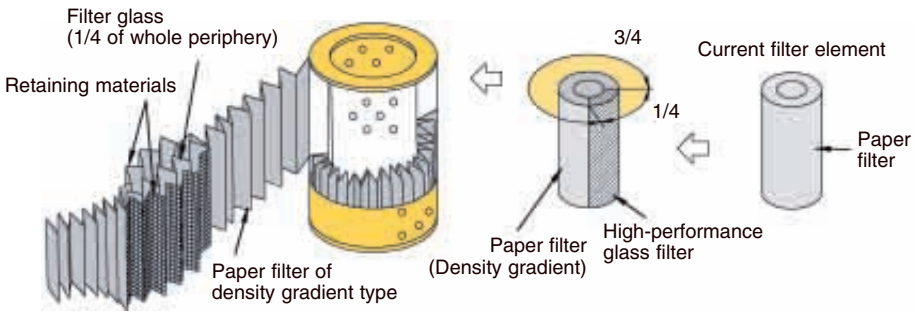


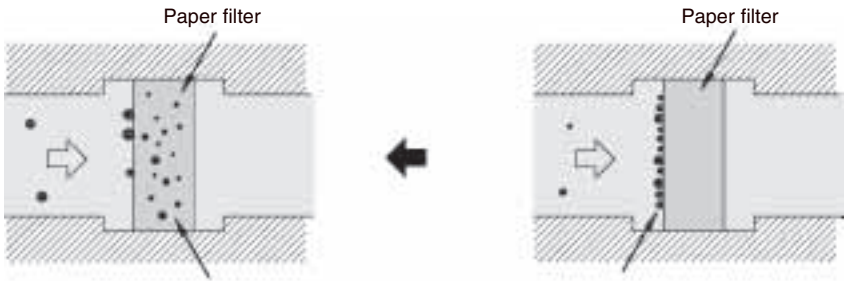


1. Swing machinery oil filter
2. Swing machinery dipstick
3. Water separator (option)
4. Coolant reserve tank
5. Fuel drain valve
6. PTO oil filter
7. Engine oil filter
8. Engine oil filter
9. Engine oil dipstick
10. Fuel filter
11. Windshield washer tank
12. Batteries
13. Air cleaner

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.





Dust is also collected inside filter paper.

Dust is also collected on surface of filter paper.

- *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.

Excellent Reliability

Dustproof Radiator Net

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

Wave Fin Radiator

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

Dual Filter Air Cleaner

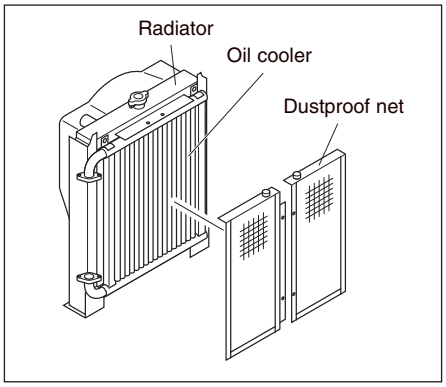
A dual filter air cleaner is employed to prevent dust from entering the engine.

Metal Guard Ring

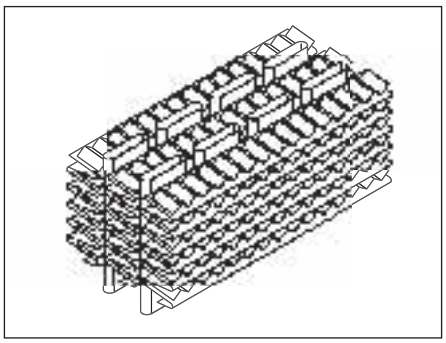
The metal guard ring protects all the hydraulic cylinders from seizure and improves reliability.

Double Lock Connectors

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



Dustproof Radiator Net


Wave Fin Radiator

Safety Features

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 . . . . . Water-cooled, 4-cycle, direct injection
Aspiration . . . . . Turbocharged
No. of cylinders 4
Bore . . . . . 102 mm
Stroke . . . . . 120 mm
Piston displacement . . . . . 3,92 ltr
Flywheel horsepower
(SAE J1349) . . . . . 64 kW 86 HP @ 2200 min-1 2.200 rpm
Governor . . . . . All speed control, mechanical

Meets 1996 EPA emission standards.

Starting motor . . . . . 4,5 kW
Alternator . . . . . 25 A/24 V
Battery . . . . . 64 Ah/2 x 12 V

HYDRAULICS 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

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

Relief valve setting:
Implement circuits . . . . . 31,9 MPa 325 kgf/cm² 4,620 psi
Travel circuit . . . . . 34,8 MPa 355 kgf/cm² 5,050 psi
Swing circuit . . . . . 27,5 MPa 280 kgf/cm² 3,980 psi
Pilot circuit . . . . . 2,9 MPa 30 kgf/cm² 430 psi

Hydraulic cylinders:
(Number of cylinders - bore x stroke)
Boom . . . . . 2-105 mm x 1.055 mm
Arm . . . . . 1-115 mm x 1.175 mm
Bucket . . . . . 1-95 mm x 885 mm

SWING SYSTEM

Driven by . . . . . Hydraulic motor
Swing reduction . . . . . Planetary gear
Swing circle lubrication . . . . . Grease-bathed
Swing lock . . . . . Wet, multiple-disc brake
Swing speed . . . . . 11,0 rpm

DRIVES AND BRAKES

Steering control . . . . . Two levers with pedals
Drive method . . . . . Fully hydrostatic
Maximum drawbar pull . . . . . 110 kN 11200 kgf
Maximum travel speed: High . . . . . 5,1 km
Low . . . . . 3,2 km
Service brake . . . . . Hydraulic lock
Parking brake . . . . . Wet, multiple-disc

UNDERCARRIAGE

Center frame . . . . . X 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
Radiator . . . . . 18,2 ltr
Engine . . . . . 17,0 ltr
Final drive, each side . . . . . 2,5 ltr
Swing drive . . . . . 2,5 ltr
Hydraulic tank . . . . . 69,0 ltr

OPERATION WEIGHT (APPROXIMATE)

Operating weight including 4.600 mm one-piece boom, 2.500 mm arm, SAE heaped 0,45 m³ backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Shoes	Operating Weight	Ground Pressure
500 mm	13.000 kg	0,44 kg/cm²
600 mm	13.185 kg	0,37 kg/cm²
700 mm	13.370 kg	0,32 kg/cm²

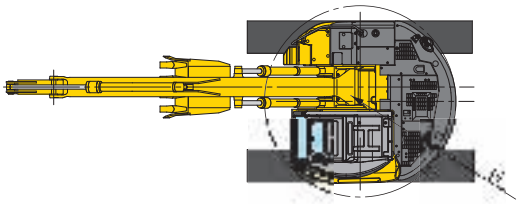
ENVIRONMENT

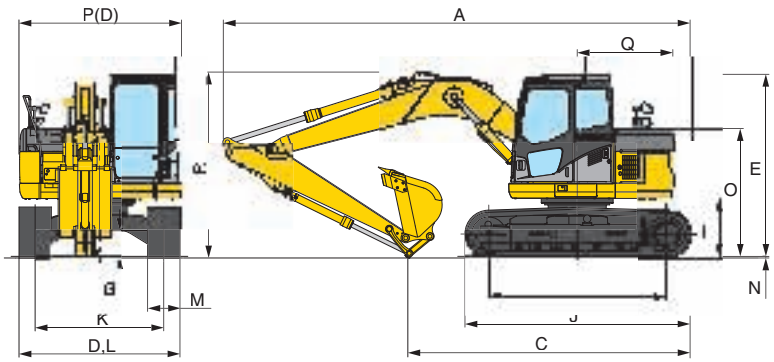
Engine emissions. . . . . .
Fully complies with European stage I exhaust emission regulations

Noise levels . . . . . LWa External noise 101 dB(A) (2000/14/EC)
LPa operator ear noise 75 dB(A) (iso 6396)

DIMENSIONS

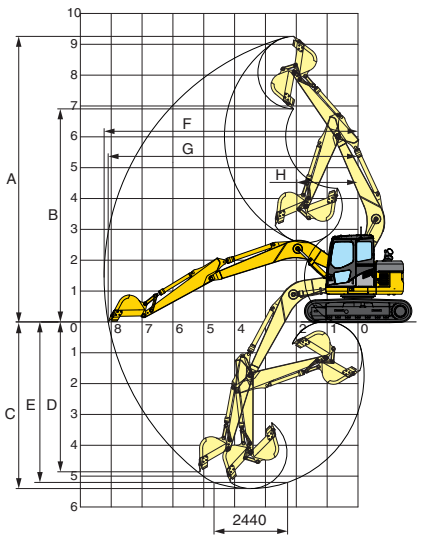
	Boom Length	4.600 mm	4.600 mm	4.600 mm
	Arm Length	2.100 mm	2.500 mm	3000 mm
A	Overall length	7.225 mm	7.220 mm	7.120 mm
B	Overall height (to top of boom)	2.630 mm	2.850 mm	3.190 mm
C	Length on ground (transport)	4.510 mm	4.360 mm	4.220 mm
D	Overall width	2.490 mm		
E	Overall height (to top of cab)	2.810 mm		
F	Ground clearance, counterweight	895 mm		
G	Minimum ground clearance	390 mm		
H	Tail swing radius	1.480 mm		
I	Length of track on ground	2.750 mm		
J	Track length	3.480 mm		
K	Track gauge	1.990 mm		
L	Width of crawler	2.490 mm		
M	Shoe width	500 mm		
N	Grouser height	25 mm		
O	Machine cab height	1.975 mm		
P	Machine cab width	2.490 mm		
Q	Distance swing center to rear end	1.480 mm		





WORKING RANGE

	Boom	4.600 mm	4.600 mm	4.600 mm
	Arm	2.100 mm	2.500 mm	3.000 mm
A	Maximum digging height	8.945 mm	9.260 mm	9.695 mm
B	Maximum dumping height	6.595 mm	6.910 mm	7.345 mm
C	Maximum digging depth	5.000 mm	5.405 mm	5.905 mm
D	Maximum vertical wall digging depth	4.465 mm	4.860 mm	5.345 mm
E	Maximum digging depth of cut for 2440 mm level	4.765 mm	5.195 mm	5.720 mm
F	Maximum digging reach	7.860 mm	8.230 mm	8.720 mm
G	Maximum digging reach at ground	7.730 mm	8.110 mm	8.600 mm
H	Minimum swing radius	1.745 mm	1.980 mm	2.250 mm
ISO	Bucket digging force	9.000 kgf	9.500 kgf	9.000 kgf
	Arm crowd force	7.300 kgf	6.300 kgf	5.700 kgf



BACKHOE BUCKET AND ARM COMBINATION

Bucket Capacity (heaped)		Width		Weight	Number of Teeth	Arm Length		
SA PCSA	CECE	Without Side Cutters	With Side Cutters			2.100 mm	3.000 mm	2.100 mm
0,18 m³	0,16 m³	450 mm	570 mm	256 kg	3	O	O	O
0,28 m³	0,26 m³	600 mm	720 mm	303 kg	3	O	O	O
0,36 m³	0,33 m³	700 mm	820 mm	330 kg	4	O	O	O
0,45 m³	0,40 m³	833 mm	953 mm	369 kg	4	O	O	X
0,50 m³	0,45 m³	859 mm	979 mm	399 kg	4	O	□	X
0,55 m³	0,50 m³	1.000 mm	NA	380 kg	5	O	X	X

O - General digging □ - Light-duty operation X - Not available

LIFTING CAPACITY

Equipment:
- Boom: 4,6 m
- Bucket: 0,45 m³
- Counterweight: 3.020 kg

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

PC128US-3 Shoe: 500 mm - Arm: 2,5 m Unit: kg

A / B	3,0m		4,6 m		6,1 m		⊕ Maximum	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6,1 m							***1.750**	***1.750**
3,0 m	***5.000**	***5.000**	***3.650**	**2.800**	**2.450**	**1.700**	***1.700**	**1.250**
0,0 m	***6.800**	**4.400**	***3.550**	**2.400**	**2.250**	**1.500**	**1.750**	**1.150**
–3,0 m	***6.250**	**4.350**	**3.450**	**2.350**			**2.400**	**1.650**

PC128US-3 Shoe: 500 mm - Arm: 3,0 m Unit: kg

A / B	3,0 m		4,6 m		6,1 m		⊕ Maximum	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6,1 m			***2.500**	***2.500**	***1.850**	**1.850**	***1.400**	***1.400**
3,0 m	***3.800**	***3.800**	***3.400**	**2.850**	**2.450**	**1.700**	***1.300**	**1.050**
0,0 m	**7.000**	**4.400**	***3.550**	**2.350**	**2.200**	**1.450**	***1.500**	**1.000**
–3,0 m	***6.750**	**4.200**	**3.350**	**2.150**	**2.150**	**1.400**	**2.000**	**1.350**

PC128US-3 Shoe: 500 mm - Arm: 2,1 m Unit: kg

A / B	3,0 m		4,6 m		6,1 m		⊕ Maximum	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6,1 m			***3.300**	**3.050**			***2.200**	***2.200**
3,0 m	***5.800**	**5.450**	***3.950**	**2.750**	**2.400**	**1.700**	***2.000**	**1.400**
0,0 m	***6.750**	**4.400**	**3.450**	**2.300**	**2.250**	**1.500**	***1.900**	**1.300**
–3,0 m	***6.150**	**4.400**	**3.500**	**2.350**			**2.800**	**1.900**

* 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.

STANDARD EQUIPMENT

- Air cleaner, double element with auto dust evacuator
- Air conditioner
- Alternator, 35 A, 24 V
- Batteries, 80 Ah/2 x 12 V
- Cab which includes: floor mat, intermittent front windshield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield, sliding rear window, sliding seat
- Auto air-conditioner
- Cooling fan, mixed flow with fan guard
- Counterweight, 3020 kg
- Dustproof net for radiator and oil cooler
- Monitor panel
- Light, one front
- Auto deceleration
- Pump/engine partition cover
- Track frame undercover
- Water separator
- Rearview mirror
- Shoe, 500 mm triple grouser
- Starting motor 4,5 kW
- Swing holding brake
- Komatsu engine S4D 102E
- Electronic closed - centre load sensing (E-CLSS) hydraulic system (HydrauMind)

OPTIONAL EQUIPMENT

- Arm, 3000 mm, 2500 mm Arm, 2100 mm, all HCU A equipped
- Blade assembly
- Auto air-conditioner
- Front window guard (full)
- Shoes
  - 600 mm triple grouser
  - 700 mm triple grouser
- Quick coupler (hydraulic)
- Quick coupler (mechanical)
- Komatsu Buckets

KOMATSU

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