

avance series



**PC200-6
PC200LC-6**

HYDRAULIC EXCAVATORS

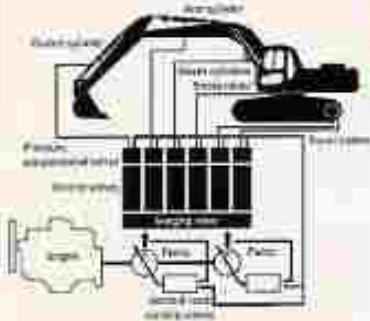


Model shown may include optional equipment.

KOMATSU

Komatsu Avance assures maximum productivity with its exclusive HydrauMind

Powered by output and a host of convenient features, make it the leader of its class!



In the HydrauMind system, the load sensing valves and pressure compensated valves automatically handle all adjustment for individual jobs based on the pressure and lever stroke detected.

What is Komatsu's HydrauMind?

It's a technologically complex yet mechanically simple system which supervises the work operations of the excavator.

HydrauMind is not computer-dependent. It is not essentially electronic, but hydraulic; its strength lies in its simplicity.

The system incorporates many major breakthroughs. Komatsu has almost 200 patents on it.

What are the benefits of the HydrauMind?

Power, versatility, maneuverability, controllability - you name it. Never has an excavator been so easy to operate, so natural, so intuitive. In a sense, you don't really operate it at all, you *feel* it.

For example, when the ground conditions change in digging... You don't have to think about changing your lever strokes because the HydrauMind instantly, silently, automatically sends just the right amount of oil to the actuators at just the right pressure to accommodate the change.

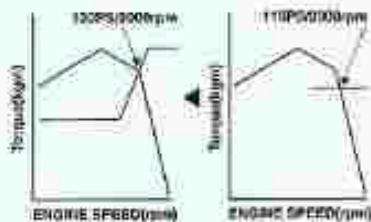
When you move the boom, arm and bucket at the same time.

All the equipment works organically with the optimum combination of speed and power - as if were a human hand.

The HydrauMind also makes it easy to change or add valves and work equipment. Moreover, because the system is hydraulic and not electronic, it ensures the best service availability in the industry.

Engine-speed-sensor-equipped hydraulic system

The pump is controlled with the engine speed sensor, so the maximum horsepower is used at all times. This contributes to more production and shorter cycle times.



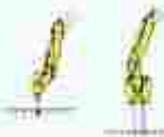
The HydrauMind Makes Everything Easy



Working through soft rock or pulling up boulders is easy because the system precisely controls boom stroke, preventing the cutting edge from slipping.



Fine-control lifting is easy because the system keeps lever control at a steady constant no matter what size the load.



Switching attachments is easy - even with such things as breakers or crushers, which require a different amount of oil - because the oil flow can be adjusted simply by adjusting the control pedal stroke for the attachment.



Digging along ditch walls is easy because the system delivers such powerful bucket side force, obtained from swing force.



Fully-loading buckets is easy because during simultaneous operations the work equipment can move slowly under maximum power.



Chassis-shake is reduced during simultaneous operations because the work load causes no change in the work equipment speed.

Comfortable operator environment helps keep work efficiency high hour after hour.



Simple Operation in an Easy Position
The seat is tiltable and can slide forward and backward together with the work equipment control levers to ensure the best operating position at all times.

Features for reduced downtime

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



Spacious cab interior

The cab interior is spacious (200 mm longer with 14% greater volume than Dash 5). Ergonomically-designed operator's seat and easy access to all control levers ensure maximum operator comfort and better concentration on the job.



Viscous damping mounts

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

Comfortable Cab Interior

The excavator cab is equipped with an open air-inlet type air conditioning unit (with a new refrigerant), whose capacity is 30% larger than that of our conventional systems. Luggage space is also provided for portable tools.



Field-Proven Features:

- Centralized lubrication for work equipment.
- X-leg track frame for superior stability and durability.
- Double lock electric connectors for increased reliability.
- Large undercarriage units for longer service life.
- I-beam structured revolving frame for increased durability.
- Thick plate structured work equipment.
- Swing holding brake for easier working on slopes.
- Fuel-efficient Komatsu engine.

SPECIFICATIONS



ENGINE

| | |
|----------------------|--|
| Model | Kubota S6D102E-1A |
| Type | 4 cycle, water cooled, diesel, injection |
| Air-cooled | Turbocharged |
| No. of cylinders | 6 |
| Bore | 102 mm, 4.02" |
| Stroke | 120 mm, 4.72" |
| Piston displacement | 5.889 ltr, 360 cu.in |
| Flywheel horsepower: | |
| (SAE J1349) | 88.4 kW/120 HP at 2000 RPM |
| (DIN 6270 NET) | 98.6 kW/134 PS at 2000 RPM |
| Governor | All speed, mechanical |



HYDRAULIC SYSTEM

| | |
|---|--|
| Type | Hydraulized (Hydraulic Mechanical Intelligence New Design) system Closed-center system with load-sensing valves and pressure compensated valves |
| Main pump: | |
| Type | Variable-displacement piston pump |
| Pumps for | Boom, arm, bucket, swing and travel circuits |
| No. of pump | 2 |
| Maximum flow | 412 ltr/109 U.S.gallons |
| Hydraulic motors: | |
| Travel | 2 x Axial piston motor with parking brake |
| Swing | 1 x Axial piston motor with parking brake |
| Relief valve setting: | |
| Implement circuit | 325 kg/cm ² , 4620 PSI |
| Travel circuit | 655 kg/cm ² , 9350 PSI |
| Swing circuit | 280 kg/cm ² , 3980 PSI |
| Pilot circuit | 33 kg/cm ² , 470 PSI |
| Hydraulic cylinder: | |
| No. of cylinders - bore x stroke x rod dia: | |
| Boom | 3 x 120 mm x 1265 mm x 85 mm 4.7" x 50.8" x 3.3" |
| Arm | 1 x 125 mm x 1490 mm x 95 mm 5.3" x 58.7" x 3.7" |
| Bucket | 1 x 115 mm x 1120 mm x 80 mm 4.5" x 44.1" x 3.2" |



SWING SYSTEM

| | |
|--------------------------|------------------------------------|
| Driven by | Hydraulic motor |
| Swing reduction | Planetary double reduction |
| Swing circle lubrication | Grease-lubricated |
| Swing circle bearing | Single row shear type ball bearing |
| Swing lock | Oil disc brake |
| Swing speed | 12.4 RPM |

Standard Equipment

- 24 V/6.5 kW electric starting motor
- 35 A alternator
- 12 V/100 Ah x 2 batteries
- Automatic circulation system for fuel line

- 800 mm 31.4" triple-groove shoe
- Track guiding guards (center)
- Hydraulic track adjuster
- Boom lock valve
- Hybrid filter element

- Rearview mirror (R/H)
- Sideview fan
- Electric horn
- Front light (1)
- Dry-type air cleaner



DRIVES & BRAKES

| | |
|--------------------------|------------------------------------|
| Steering control | Two levers with pedals |
| Drive method | Fully hydrostatic type |
| Travel motor | Axial piston motor, in-shoe design |
| Reduction system | Planetary gear, double-reduction |
| Max. crawler pull | 17700 kg/30020 lb/174 kN |
| Max. travel speed (high) | 5.5 km/h/3.4 MPH |
| Max. travel speed (low) | 3.8 km/h/2.4 MPH |
| Service brake | Hydraulic lock type |
| Parking brake | Oil disc brake |
| Gradiability | 70% (35 deg) |



UNDERCARRIAGE

| | |
|------------------------|------------------------|
| Type | Crawler tractor design |
| Center frame | X-leg frame |
| Track frame | Box section type |
| Size of track | Bevelled track |
| Track adjuster | Hydraulic type |
| Roller seal type | Floating seal |
| No. of carrier rollers | 2 each side |
| No. of track rollers | 7 each side |
| No. of idlers | 46 each side |



COOLANT & LUBRICANT CAPACITY (refilling)

| | |
|--------------------|----------------------|
| Fuel tank | 340 ltr/89.5 U.S.gal |
| Radiator | 22.2 ltr/5.9 U.S.gal |
| Engine | 24.0 ltr/6.3 U.S.gal |
| Final drive (each) | 4.2 ltr/1.1 U.S.gal |
| Swing ring | 5.5 ltr/1.5 U.S.gal |
| Hydraulic tank | 160 ltr/43.2 U.S.gal |



OPERATING WEIGHT (approximate)

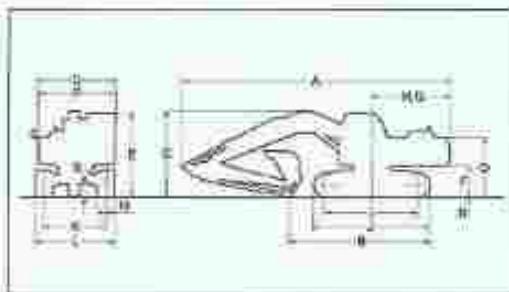
Operating weight, including 5700 mm, 18' 9" one piece boom, 2925 mm, 9' 7" arm, SAE tapered 0.80 M² 1.05 cu.yd bucket, operator, lubricant, coolant and fuel tank and standard equipment.

| Truck grout shoe | Operating weight | Sealing pressure |
|------------------|----------------------|--|
| 600 mm 24" | 15160 kg 42250 lb | 0.45 kg/cm ² 0.40 PSI/41 kPa |
| 800 mm 31.4" | 15880 kg 43630 lb | 0.35 kg/cm ² 0.30 PSI/34.3 kPa |

All weather steel cab (with visor/mirror, tinted safety glass windows, pull-up type front window with lock device, removable lower windshield, lockable door)



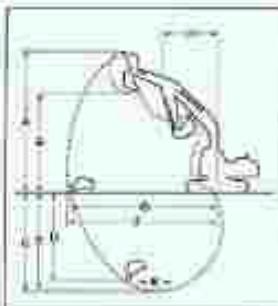
DIMENSIONS



| | | |
|---|---------|---------|
| A : Overall length | 9425 mm | 30' 11" |
| B : Length on ground (transport) | 4830 mm | 15' 10" |
| C : Overall height (to the top of boom) | 2972 mm | 9' 9" |
| D : Overall width | 3000 mm | 9' 10" |
| E : Overall height (to the top of cab) | 2905 mm | 9' 6" |
| F : Ground clearance (no counterweight) | 1083 mm | 3' 3" |
| G : Min. ground clearance | 440 mm | 1' 5" |
| H : Turning radius | 2740 mm | 9' 0" |
| I : Length of track on ground | 3220 mm | 10' 3" |
| J : Track length | 4000 mm | 13' 5" |
| K : Track gauge | 2200 mm | 7' 2" |
| L : Width of crawler width | 3000 mm | 9' 10" |
| M : Shoe width (STD) | 600 mm | 2' 0" |
| (OPT.) | 600 mm | 24" |
| N : Grouser height | 26 mm | 1" |
| O : Machine cab height | 2220 mm | 7' 8" |
| P : Machine cab width | 2710 mm | 8' 11" |
| Q : Distance, swing center to rear end | 2740 mm | 8' 0" |



WORKING RANGE



| | | |
|--|----------|-----------------|
| A : Max. digging height | 8005 mm | 30' 6" |
| B : Max. dumping height | 6475 mm | 21' 3" |
| C : Max. digging depth | 5620 mm | 21' 7" |
| D : Max. vertical wall digging depth | 5580 mm | 19' 7" |
| E : Max. digging depth of cut for 0° level | 6435 mm | 21' 1" |
| F : Max. digging reach | 9875 mm | 32' 5" |
| G : Max. digging reach at ground level | 9200 mm | 30' 10" |
| H : Min. swing radius | 3630 mm | 11' 11" |
| Bucket digging force | 11400 kg | 25130 lb/112 kN |
| Arm crowd force | 8000 kg | 18640 lb/88 kN |

Backhoe bucket and arm combination

| Bucket capacity (hinged) | Width | Weight | | No. of boom | Arm |
|------------------------------------|------------------------------------|-------------------------|----------------------|----------------|-----|
| | | Without side cutters | With side cutters | | |
| 0.50 m ³ 0.65 cu.yd. | 0.45 m ³ 0.59 cu.yd. | 750 mm 29.5" | 855 mm 33.7" | 3 | ○ |
| 0.80 m ³ 1.05 cu.yd. | 0.70 m ³ 0.92 cu.yd. | 1045 mm 41.1" | 1150 mm 45.3" | 5 | ○ |
| 0.93 m ³ 1.22 cu.yd. | 0.80 m ³ 1.05 cu.yd. | 1200 mm 47.2" | 1305 mm 51.4" | 5 | □ |

○ General purpose use, weight up to 1.8 t/3,600 lb/1.62 U.S. ton/cu.yd.

□ General purpose use, weight up to 1.5 t/3,100 lb/1.26 U.S. ton/cu.yd.

■ Light duty uses, weight up to 1.2 t/2,600 lb/1.03 U.S. ton/cu.yd.

✗ Not usable

OPTIONAL EQUIPMENT

- Air conditioner
- Heater
- Boom holding valve
- In-line filter
- 600 mm 24" triple-grouser shoe
- Seat belt
- Fuel supply pump
- Defroster
- Window washer
- Travel alarm
- Tool kit
- Rearview mirror (L/H)
- AM radio
- Track frame underguard
- Front cab guard
- Self diagnostic monitor
- First console seat parts

PC200-6

ATTACHMENTS

Clamshell bucket for vertical digging
Super long front has extensive reach.
Spike hammer for concrete surface
chipping work.
Vibratory pile driver
Hydraulic breaker

For demolition work:
Super long boom arm for demolishing
the upper parts of tall buildings
Hydraulic crusher and cutter
Hydraulic crusher
Power ripper
Hydraulic smasher

Fork grab for demolishing wooden houses
Rotary grapple can rotate 360 degrees with
power.
Spatula grapple for breaking, rocks,
large size scrap
Rotary log grapple for loading log

Reinforcement or modification (e.g. piping) to the basic machine or work equipment
may be necessary for the attachments. For details, contact the nearest Komatsu distributor.

LIFTING CAPACITY



A Reach from swing center
B Bucket hook height
C Lifting capacity
D Rating over front
E Rating over side
MAX Rating at maximum reach

Conditions:
• 6200 mm 16'6" one-piece boom
• 2925 mm 9'7" arm
• 0.8 m³ 1.05 cu.yd. SAE hopper bucket
• 800 mm 31.4" triple-grouser shoes

Conditions:

Bucket digging force, Super 50%, 10 min digging, Max. digging height:

kg (lb)

| A | MAX | | 7.5 m (25') | | 8.0 m (26') | | 8.5 m (28') | | 9.0 m (30') | | 9.5 m (31') | |
|----------------------------------|------------------------------|-----------------------------|-------------|------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|----|
| | C1 | C4 | C1 | C4 | C1 | C4 | C1 | C4 | C1 | C4 | C1 | C4 |
| <i>Arm length 2925 mm (9'7")</i> | | | | | | | | | | | | |
| 7.5 m (25') | 2550 ^a (5600) | 2550 ^a (5600) | | | | | | | | | | |
| 8.0 m (26') | 2550 ^a (5600) | 2550 ^a (5600) | | | | | | | | | | |
| 8.5 m (28') | 2550 ^a (5600) | 2550 ^a (5600) | 2500 | 2500 | 2700 | | | | | | | |
| 9.0 m (30') | 2550 ^a (5600) | 2550 ^a (5600) | 2500 | 2500 | 2700 | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | |
| 9.5 m (31') | 2550 ^a (5600) | 2550 ^a (5600) | 2500 | 2500 | 2700 | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | 3450 ^b (7600) | |
| 1.0 m (3') | 3100 ^a (6800) | 1850 ^a (4000) | 3700 | 3550 | 3300 | 3150 | 3300 | 3700 | 4150 ^b (9000) | 4150 ^b (9000) | 4150 ^b (9000) | |
| 1.5 m (5') | 3950 ^a (8500) | 1850 ^a (4000) | 3850 | 3300 | 3850 ^a (8500) | 3250 | 3350 ^a (7300) | 3000 | 3700 ^a (8000) | 3700 ^a (8000) | 3700 ^a (8000) | |
| 2.0 m (6') | 4100 ^a (8800) | 1850 ^a (4000) | 3700 | 3550 | 3300 | 3150 | 3300 | 3700 | 4150 ^b (9000) | 4150 ^b (9000) | 4150 ^b (9000) | |
| 2.5 m (8') | 3400 ^a (7500) | 2150 ^a (4800) | 3650 | 3200 | 3150 | 3050 | 3600 | 4000 | 4650 ^a (10000) | 4650 ^a (10000) | 4650 ^a (10000) | |
| 3.0 m (10') | 4050 ^a (8900) | 2450 ^a (5400) | | | 3150 | 3050 | 3150 | 3650 ^a (8000) | 4650 ^a (10000) | 4650 ^a (10000) | 4650 ^a (10000) | |
| 3.5 m (12') | 5000 ^a (11000) | 2600 ^a (5900) | | | | | 3700 | 4000 | 4350 ^a (9500) | 4350 ^a (9500) | 4350 ^a (9500) | |

^a Load limit hydraulically limited by hydraulic pump and motor. ^b Load limit due to reduced lift of cylinder. It is subject to 75% of digging load.

New Hybrid filter Element

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

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.



MORE FRIENDLY TO THE ENVIRONMENT

In-Tandem with the Environment

Mixed flow fan is used for the cooling fan to reduce the fan-clutch noise. Balanced air流es incl. the engine body but flows smoothly, which enables to secure a certain air volume with little noise even at low fan RPM.

Clean Engine

The SDEC 10EE engine is designed to reduce emissions and to meet the regulation of the U.S.A. which is the stringent regulation in the world.



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