

avance series



PC200-6
PC200LC-6

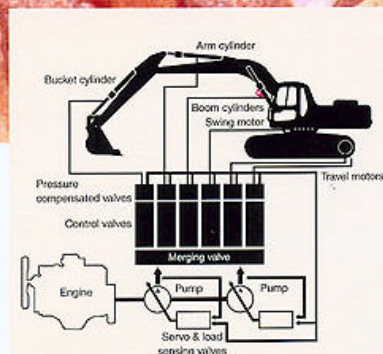


Model shown may include optional equipment.

KOMATSU

Komatsu Avance assures maximum productivity with its exclusive HydrauMind

Powerful 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 adjustments 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 wear it.

For example, when the ground condition changes 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.

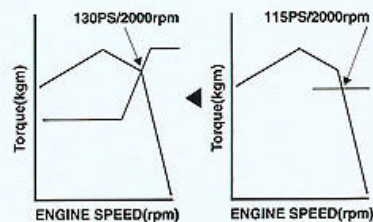
When you move the boom, arm and bucket at the same time...

All the equipment works organically with the optimum combination of speed and power—as if it 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 shorten cycle times.



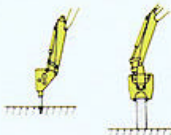
The HydrauMind Makes Everything Easy



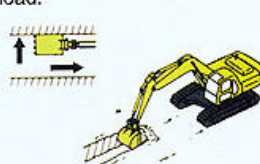
Working through soft rock or pulling up boulders is easy because the system precisely controls boom raise, preventing the cutting edge from slipping.



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



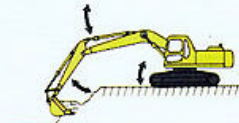
Switching attachments is easy—even with such things as breakers or crushers, which require a different amount of oil—because the oil flow can be adjusted simply by adjusting the control pedal stroke for the attachment.



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



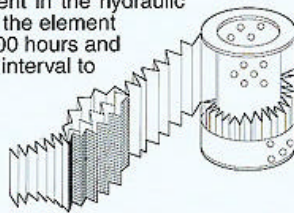
Simple Operation in an Easy Position

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

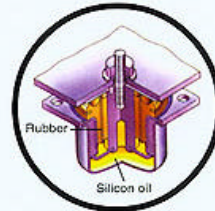
New hybrid filter element

The new hybrid element in the hydraulic circuit greatly 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.

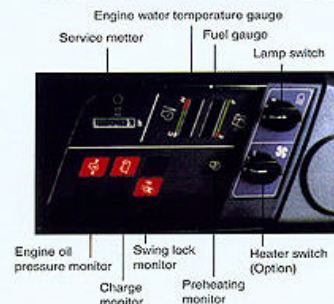


Viscous damping mounts

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 Komatsu S6D102E-1-A
 Type 4 cycle, water cooled, direct injection
 Aspiration Turbocharged
 No. of cylinders 6
 Bore 102 mm. 4.02"
 Stroke 120 mm. 4.72"
 Piston displacement 5.883 ltr. 359 cu.in
 Flywheel horsepower:
 (SAE J1349) 98.6 kW 132 HP at 2000 RPM
 (DIN 6270 NET) 98.6 kW 134 PS at 2000 RPM
 Governor All speed, mechanical



HYDRAULIC SYSTEM

Type HydrauMind (Hydraulic Mechanical Intelligence New Design) system
 Closed-center system with load sensing valves and pressure compensated valves
 Main pump:
 Type Variable-displacement piston pumps
 Pumps for Boom, arm, bucket, swing and travel circuits
 No. of pump 2
 Maximum flow 412 ltr./109 U.S.gal/min.
 Hydraulic motors:
 Travel 2 x Axial piston motor with parking brake
 Swing 1 x Axial piston motor with parking brake
 Relief valve setting:
 Implement circuits 325 kg/cm² 4620 PSI
 Travel circuit 355 kg/cm² 5050 PSI
 Swing circuit 280 kg/cm² 3980 PSI
 Pilot circuit 33 kg/cm² 470 PSI
 Hydraulic cylinders:
 No. of cylinders - bore x stroke x rod dia:
 Boom 2 - 120 mm x 1285 mm x 85 mm
 4.7" x 50.6" x 3.3"
 Arm 1 - 135 mm x 1490 mm x 95 mm
 5.3" x 58.7" x 3.7"
 Bucket 1 - 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-bathed
 Swing circle bearing Single row shear type ball bearing
 Swing lock Oil disc brake
 Swing speed 12.4 RPM



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. drawbar pull 17700 kg 39020 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
 Gradeability 70% (35 deg)



UNDERCARRIAGE

Type Crawler tractor design
 Center frame X-leg frame
 Track frame Box section type
 Seal of track Sealed track
 Track adjuster Hydraulic type
 Rollers seal type Floating seal
 No. of carrier rollers 2 each side
 No. of track rollers 7 each side
 No. of shoes 45 each side



COOLANT & LUBRICANT CAPACITY (refilling)

Fuel tank 340 ltr. 89.8 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 drive 5.5 ltr. 1.5 U.S. gal
 Hydraulic tank 166 ltr. 43.9 U.S. gal



OPERATING WEIGHT (approximate)

Operating weight, including 5700 mm 18' 8" one piece boom, 2925 mm 9' 7" arm, SAE heaped 0.80 M³ 1.05 cu.yd. backhoe bucket, operator, lubricant, coolant and full fuel tank and standard equipment.

Triple grouser shoes	Operating weight	Ground pressure
600 mm 24"	19180 kg 42280 lb	0.45 kg/cm ² 6.40 PSI/44.1 kPa
800 mm 31.4"	19880 kg 43830 lb	0.35 kg/cm ² 5.0 PSI/34.3 kPa

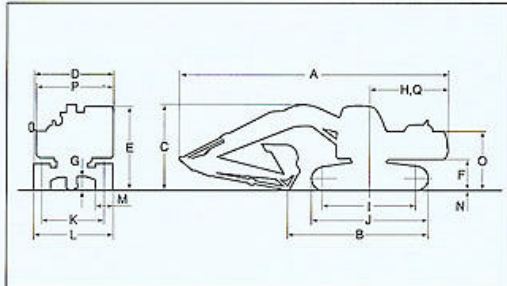
All weather steel cab (with viscous mount, tinted safety glass windows, pull-up type front window with lock device, removable lower windshield, lockable door)

Standard Equipment

- 24 V/4.5 kW electric starting motor.
- 35 A alternator
- 12 V/100 Ah x 2 batteries
- Automatic de-aeration system for fuel line
- 800 mm 31.4" triple-grouser shoe
- Track guiding guards (center)
- Hydraulic track adjusters
- Boom lock valve
- Hybrid filter element
- Rearview mirror (RH)
- Suction fan
- Electric horn
- Front light (1)
- Dry type air cleaner



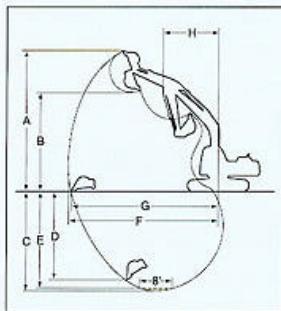
DIMENSIONS



A : Overall length	9425 mm	30' 11"
B : Length on ground (transport)	4830 mm	15' 10"
C : Overall height (to the top of boom) ..	2970 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 (to counterweight) ..	1085 mm	3' 7"
G : Min. ground clearance	440 mm	1' 5"
H : Tail swing radius	2740 mm	9' 0"
I : Length of track on ground	3270 mm	10' 9"
J : Track length	4080 mm	13' 5"
K : Track gauge	2200 mm	7' 3"
L : Width of crawler width	3000 mm	9' 10"
M : Shoe width (STD.)	800 mm	2' 8"
(OPT.)	600 mm	24"
N : Grouser height	26 mm	1"
O : Machine cab height	2020 mm	6' 8"
P : Machine cab width	2710 mm	8' 11"
Q : Distance, swing center to rear end ..	2740 mm	9' 0"



WORKING RANGE



A : Max. digging height	9305 mm	30' 6"
B : Max. dumping height	6475 mm	21' 3"
C : Max. digging depth	6620 mm	21' 9"
D : Max. vertical wall digging depth	5980 mm	19' 7"
E : Max. digging depth of cut for 8' level	6435 mm	21' 1"
F : Max. digging reach	9875 mm	32' 5"
G : Max. digging reach at ground level	9700 mm	31' 10"
H : Min. swing radius	3630 mm	11' 11"
Bucket digging force	11400 kg	
	25130 lb/112 kN	
Arm crowd force	9000 kg	
	19840 lb/88 kN	

Backhoe bucket and arm combination

Bucket capacity (heaped)		Width		Weight (with side cutters)	No. of teeth	Arm
SAE, PCSA	CECE	Without side cutters	With side cutters			2.925 m 9'7"
0.50 m ³ 0.65 cu.yd.	0.45 m ³ 0.59 cu.yd.	750 mm 29.5"	855 mm 33.7"	478 kg 1,050 lb	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"	645 kg 1,420 lb	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"	696 kg 1,530 lb	5	□

- General purpose use, weight up to 1.8 t/m³ 1.52 U.S. ton/cu.yd.
 △ General purpose use, weight up to 1.5 t/m³ 1.26 U.S. ton/cu.yd.
 □ Light duty work, weight up to 1.2 t/m³ 1.01 U.S. ton/cu.yd.
 X 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 (LH)
- AM radio
- Track frame underguard
- Front cab guard
- Self diagnostic monitor
- First service spare parts

PC200-6

ATTACHMENTS

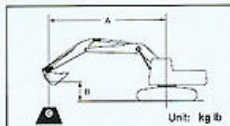
Clamshell bucket for vertical deep digging
Super long front has extensive reach.
Spike hammer for concrete surface chiseling work
Vibratory pile driver
Hydraulic breaker

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 grab can rotate 360 degree with power.
Scrab grapple for boulders, rocks, large size scrap
Rotary log grapple for loading log

Reinforcements or modification (e.g. piping) to the base 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
Cf : Rating over front
Cs : Rating over side
MAX: Rating at maximum reach

Conditions:
• 5700 mm 18'8" one-piece boom
• 2925 mm 9'7" arm
• 0.8 m³ 1.05 cu.yd. SAE heaped bucket
• 800 mm 31.4" triple-grouser shoes

Conditions:

Boom : 5700 mm (18'8"), Bucket (SAE) : 0.80 m³ (1.05cu.yd), Shoes : 800 mm (31.4")

unit : kg (lb)

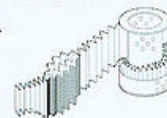
B \ A	MAX		7.5 m (25')		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (5')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")												
7.5 m (25')	2650* (5800)	2650* (5800)										
6.0 m (20')	2550* (5600)	2550* (5600)										
4.5 m (15')	2550* (5600)	2250 (5000)	4200 (9300)	2500 (5500)	4200* (9300)	3700 (8200)						
3.0m (10')	2650* (5800)	2000 (4400)	3950 (8700)	2400 (5300)	5100* (11200)	3450 (7600)	6450* (14200)	5450 (12000)	10050* (22200)	10050* (22200)		
1.5 m (5')	2950* (6500)	1850 (4100)	3800 (8400)	2300 (5100)	5500 (12100)	3250 (7200)	8350* (18400)	5000 (11000)	5700* (12600)	5700* (12600)		
0 m (0')	3100 (6800)	1950 (4300)	3700 (8200)	2250 (5000)	5300 (11700)	3150 (6900)	8300 (18300)	4700 (10400)	6550* (14400)	6550* (14400)		
-1.5 m (-5')	3400 (7500)	2100 (4600)	3600 (7900)	2200 (4900)	5150 (11400)	3050 (6700)	8200 (18100)	4600 (10100)	9550* (21100)	9200 (20300)	5750* (12700)	5750* (12700)
-3.0 m (-10')	4050 (8900)	2450 (5400)			5100 (11200)	3050 (6700)	8150 (18000)	4650 (10300)	14100* (31100)	9400 (20700)	9250* (20400)	9250* (20400)
-4.5 m (-15')	5800 (12800)	3600 (7900)					8700 (19200)	4800 (10600)	13150* (29000)	9650 (21300)		

* 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.

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 subjected to change without notice.



MORE FRIENDLY TO THE ENVIRONMENT

In-Tune with the Environment

Mixed flow fan is used for the cooling fan to reduce its fan-stirring noise. Blowered air does not hit the engine body but flows smoothly, which enables to secure a certain air volume with little noise even at low fan RPM.



KOMATSUคิดห่วงใยในสิ่งแวดล้อม

Clean Engine

The S6D 102E engine is designed to reduce emissions and to meet the regulation of the U.S.A. which is the reverent regulation in the world.



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