

PC200-3 PC200LC-3

HYDRAULIC EXCAVATOR

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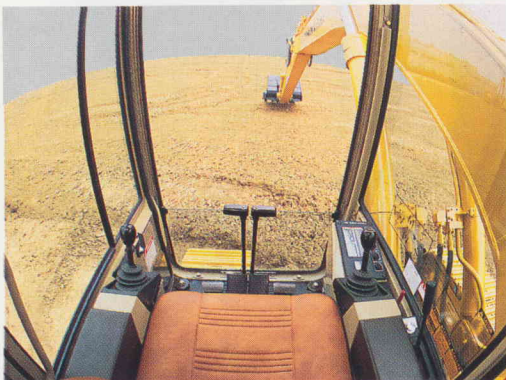
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Model shown may include optional equipment

**FLYWHEEL HORSEPOWER: 118HP @ 2100 RPM. BUCKET CAPACITY: .50-1.17m³ (.65-1.53 yd³).
OPERATING WEIGHT: 18416kg (40,600 lb)/WITH LC UNDERCARRIAGE: 19160kg (42,245 lb).**

- Operating mode selection switch saves fuel by reducing pump output during light duty applications
- EOLSS system conserves fuel by preventing neutral, fine control and relief losses
- Large tinted glass area and wrist control levers add to the operator's comfort and productivity
- Additional fuel savings from the autodeceleration system which automatically lowers engine speed whenever the work equipment and travel controls are in neutral
- Variable displacement hydraulic pumps modify the rate of oil flow to match the application
- Arm merge circuit reduces cycle time
- Straight travel circuit assures straight travel even during simultaneous operations
- Quiet, fuel-efficient Komatsu S6D105 turbodiesel
- Extra-long track available for greater stability and increased lifting capacity
- Electronic display/monitor panel continuously monitors all systems



Advanced Hydraulic System

...Minimized Fuel Consumption

Switchable mode selection system — If the driving power of the hydraulic pump is always set to 100% of engine output (the case in most excavators) there is a lot of wasted energy when the machine is only doing light duty work such as slope-finishing. The PC200/200LC-3 allows the operator to match the force of the pumps to the application. The Standard Mode should be selected for general digging and loading. While the Heavy Duty Mode should be used when maximum force is required, the Light Duty Mode makes it possible to maintain cycle times and save fuel by reducing the driving power of the pumps.

Designed for Maximum Operator Productivity

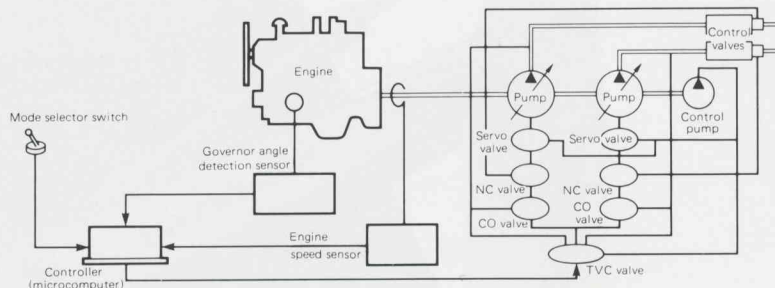
Human engineered cab — is both roomy and efficient. The large area of tinted glass allows the operator excellent visibility. Five-way seat with armrests, short stroke wrist-control levers, pull-up front window and travel pedals with levers work together to help your operator maximize production.

Low-noise operation — Advanced OLSS hydraulics, a closed engine room and rubber-mounted engine all contribute to a low decibel level inside the cab.

Wrist control levers — for easy work equipment operation. The armrest-mounted wrist control levers have a maximum stroke of only 75mm (3") and Komatsu's Proportional Pressure Control System reduces operating effort, for precise control of work equipment.

Swing holding brake — automatically prevents hydraulic drift of the machine even when it's parked on a slope. The operator is no longer required to physically maintain a braking device during work equipment operation. Also, the swing control valve is equipped with a closed center spool valve for smooth starts and stops.

Travel/steering controls — are foot pedals with detachable lever controls. Either can be used depending on application and operator preference.



EOLSS System (Electronic Open-Center Load Sensing System) — is built into the hydraulic system to reduce unnecessary hydraulic losses.

The negative control valves (pump neutral control and pump fine control) and cutoff valve sense and provide the hydraulic force required for operation, minimizing unnecessary pump action and oil flow. Pump neutral control and pump fine control utilize the negative control valve to divert oil flow when the machine is in neutral or doing fine control work such as pipe-laying or slope finishing. The cutoff valve saves fuel by reducing pump flow during relief loss.

Autodecelerator System — automatically reduces engine speed when the work equipment and travel controls are in neutral. Why waste fuel waiting on the dump-truck? Following a short time delay so fine control work will not be affected, a solenoid valve automatically slows the engine and saves you fuel.



Komatsu S6D105 — provides 118 HP and 6.49 ltr. (396 in³) displacement. The S6D105 is a 6-cylinder, direct-injected, water-cooled, turbo-diesel that operates both quietly and efficiently.

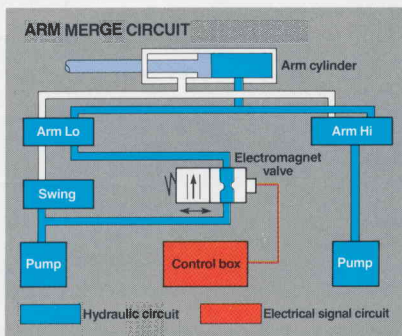


Provides . . .

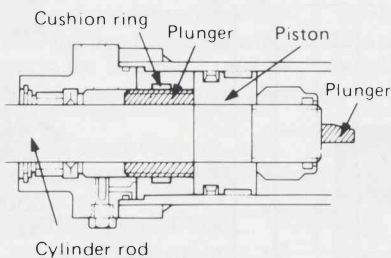
...Smooth Powerful Operation

Arm merge circuit — combines smooth bucket movement with quick cycle times. This feature is especially valuable in leveling, slope-finishing, or other applications where frequent arm action is required. When arm and swing action occur simultaneously, oil normally used in the arm's "Lo" circuit shifts to the swing system for high-speed swing action.

When only the arm is actuated oil flow from two pumps is merged and sent to the arm circuit, accelerating arm speed.



Cushion mechanism — in the arm cylinder absorbs operating shocks from arm extension and retraction. This mechanism increases both operating comfort and component life.



Straight travel valve — automatically interlocks the left and right hydraulic circuits allowing the machine to always travel straight, even when work equipment is being simultaneously operated.

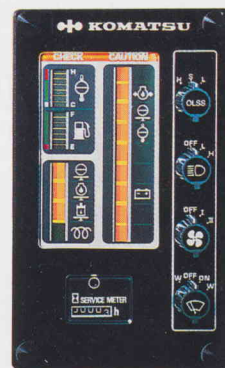
Smooth swing action — is assured with a control valve-operated swing system. Swing stops and starts are smooth and firm.

Boom and arm lock valves — eliminate drift.



At Komatsu the Quality is Standard

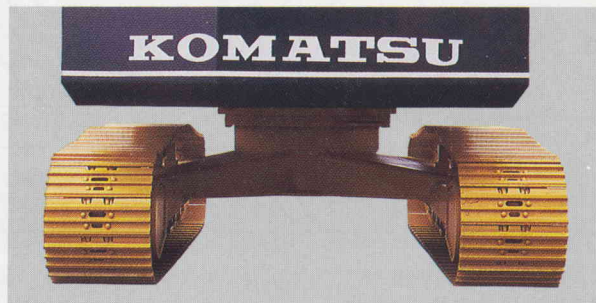
Electronic monitoring system — is a display panel which continuously monitors all operating systems. If a malfunction should occur the operator is immediately warned which system is experiencing trouble, saving valuable time lost searching for the problem. Also, gauges constantly monitor service hours, engine water temperature and fuel level.



Open-type machine covers — Hinged hood and side covers allow quick access and easy maintenance to internal components such as the engine and hydraulic equipment.



Travel motors — are always protected from external damage since they are in-shoe type motors. Also, all hydraulic piping is safely routed through the rolled box X-leg center frame.



Backhoe bucket — is manufactured of high-tensile-strength steel for maximum rigidity and extended life. Side cutters shown are available as an option.



All components are designed and manufactured by Komatsu for maximum quality and reliability.

SPECIFICATIONS



ENGINE

Komatsu S6D105 4-cycle, water-cooled, turbocharged diesel engine with 6 cylinders, 105 mm/4.13" bore x 125 mm/4.92" stroke and 6.49 ltr/396 in³ piston displacement.

Flywheel horsepower* **118 HP @ 2100 RPM**
 Maximum torque* **46 kg-m/333 lb-ft @ 1600 RPM**

The engine features direct injection for fuel economy, a mechanical all-speed governor, forced lubrication with a full-flow filter, dry-type air cleaner with dust indicator and automatic dust evacuator, 24 V/7.5 kw starting system with 25-amp alternator.

*Performance of standard engine equipped with fan, air cleaner, alternator, water pump, lubricating-oil pump, muffler, and fuel pump operating at SAE standard ambient temperature (29.4°C/85°F) and barometric conditions (745 mmHg/29.38" Hg).



HYDRAULIC SYSTEM

Unique, 2 variable capacity piston pumps and independent swing operation assure smooth compound movements of the work equipment. The Electronic Open-center Load Sensing System (EOLSS) controls the pumps for efficient use of engine power, reduced hydraulic loss during operation, and low fuel consumption.

Two variable-capacity piston pumps power boom, arm, bucket swing and travel circuits. One gear pump powers pilot control circuits.

Pump capacities (discharge flow @ 2100 engine RPM):
 Piston 193 ltr/51 U.S. gal/min x 2
 Gear 50 ltr/13.2 U.S. gal/min

Hydraulic motors:
 Travel Two axial piston motors with counter-balance valve and parking brake
 Swing One axial piston motor with swing holding brake

Relief valve settings:
 Implement circuits 320 kg/cm²/4550 PSI
 Swing circuits 275 kg/cm²/3910 PSI
 Pilot circuits 30 kg/cm²/430 PSI

Control valves:
 4-spool and 5-spool valves with a service valve

No. of cylinders—bore x stroke:
 Boom 2-120 mm x 1260 mm/4.72" x 4'2"
 Arm 1-130 mm x 1570 mm/5.12" x 5'2"
 Bucket 1-110 mm x 1120 mm/4.33" x 3'8"



STEERING

Steering/traveling controls are activated with either hand levers or foot pedals. Pushing both levers (or pedals) moves machine forward. Pulling them back makes machine go into reverse. Setting one lever (or pedal) in neutral and the other in forward enables machine to make a pivot turn. Pushing one forward while pulling the other backward makes machine counterrotate on the spot.



DRIVES

Fully hydrostatic drive with each track powered by an axial piston motor. Power goes through planetary single-reduction gear to track.

STANDARD UNDERCARRIAGE
 Maximum drawbar pull 14700 kg/32,410 lb
 Maximum travel speed 3.8 km/h/2.4 MPH

LC UNDERCARRIAGE
 Maximum drawbar pull 15700 kg/34,610 lb
 Maximum travel speed 3.4 km/h/2.1 MPH



BRAKES

Each travel motor is equipped with a brake valve that lessens shock when applied, and limits speed during descent. The brakes automatically lock when the travel/steering levers and/or pedals are in neutral. Oil, multiple-disc parking brakes, interconnected with the travel-steering levers and/or pedals, are also automatically actuated on the final-drive input shaft.



SWING SYSTEM

The swing system is powered by a hydraulic driven motor through spur and planetary gears. Single-row, shear type ball bearings with induction-hardened internal gears are built into the swing circle. Grease-bathed swing pinion, pin-lock type swing lock and swing holding brake are provided. Swing speed is proportional to swing control lever stroke.

Swing speed 13 RPM
 Tail-swing radius 2700 mm/8'10"
 Min. swing radius 3775 mm/12'5"
 (work equipment, fully retracted)



UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes sealed tracks, lubricated rollers and idlers, hydraulic track adjusters with shock absorbing springs, and assembled track-type tractor shoes with triple grousers.

STANDARD UNDERCARRIAGE
 Shoe width 710 mm/28"
 Grouser height 26 mm/1"
 Number of shoes (each side) 45
 Number of carrier rollers (each side) 2
 Number of track rollers (each side) 7
 Ground pressure 36 kg/cm²/5.12 PSI

LC UNDERCARRIAGE
 Shoe width 710 mm/28"
 Grouser height 26 mm/1"
 Number of shoes (each side) 49
 Number of carrier rollers (each side) 2
 Number of track rollers (each side) 9
 Ground pressure 0.34 kg/cm²/4.83 PSI



SERVICE REFILL CAPACITIES

Fuel tank 280 ltr/73.9 U.S. gal
 Coolant 20 ltr/5.3 U.S. gal
 Engine 24 ltr/6.3 U.S. gal
 Final drive (each side) 3.7 ltr/1.0 U.S. gal
 Swing drive 7 ltr/1.9 U.S. gal
 Hydraulic oil 150 ltr/39.6 U.S. gal



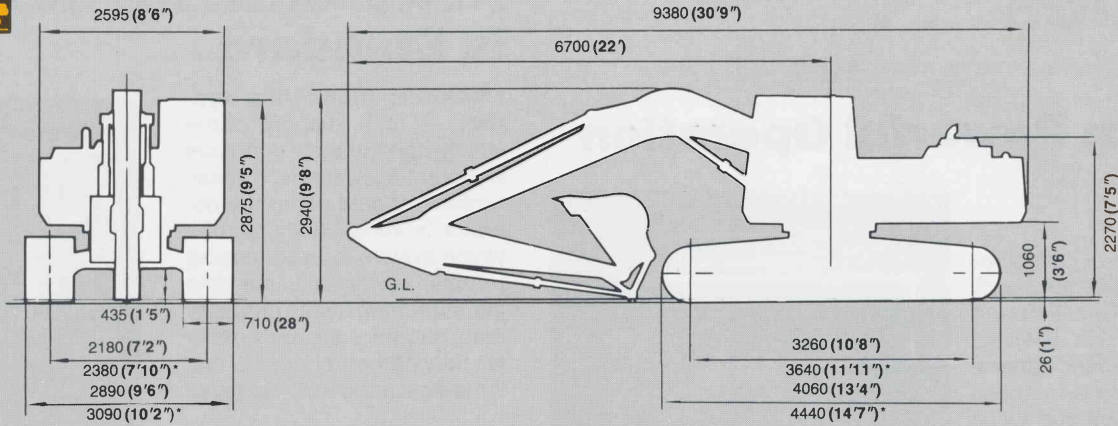
OPERATING WEIGHT

Including 5700 mm/18'8" one-piece boom, 2925 mm/9'7" arm, 0.80 m³/1.05 yd³ backhoe bucket, operator, lubricant, coolant and full fuel tank 18416 kg/40,600 lb
 with **LC UNDERCARRIAGE** 19160 kg/42,245 lb



DIMENSIONS

Unit: mm (ft.in)



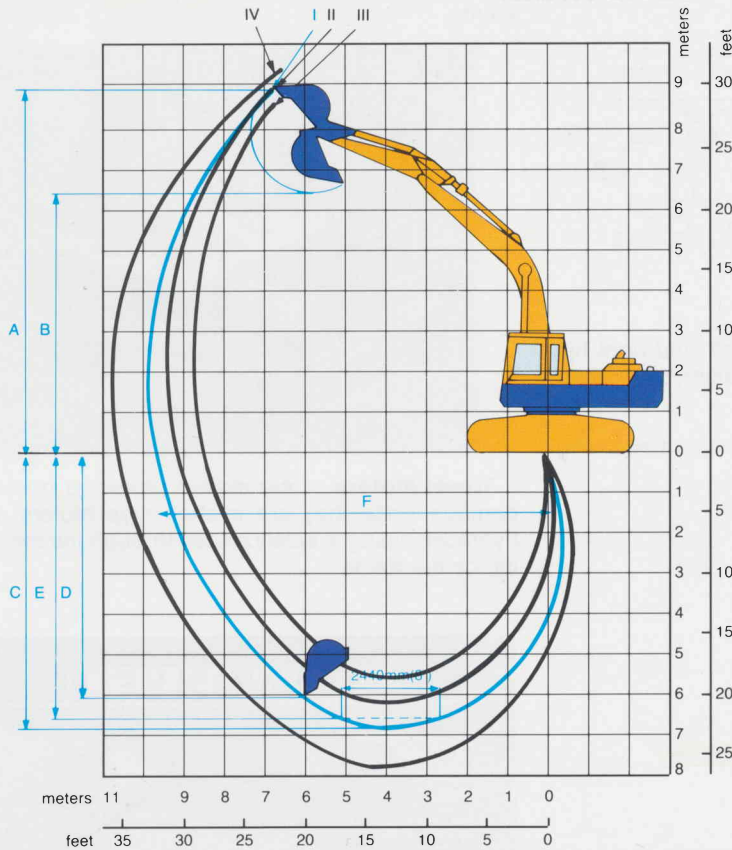
*LC UNDERCARRIAGE DIMENSIONS

With 5700 mm/18'8" one-piece boom, 2925 mm/9'7" arm, SAE heaped 0.80 m³/1.05 yd³ backhoe bucket



WORKING RANGE

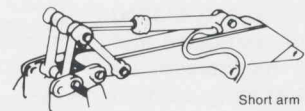
- I... 5700 mm/18'8" boom + 2925 mm/9'7" arm
- II... 5700 mm/18'8" boom + 2400 mm/7'10" arm
- III... 5700 mm/18'8" boom + 1800 mm/5'11" arm
- IV... 5700 mm/18'8" boom + 2925 mm/9'7" arm + 1130 mm/3'8" arm extension



Boom Available

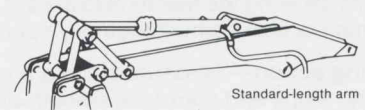
5700 mm/18'8"
Weight: 1350 kg/2970 lb

Arms Available

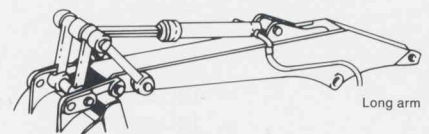


1800 mm/5'11"
weight: 580 kg/1280 lb

1130 mm/3'8"
arm extension
weight: 450 kg/990 lb



2400 mm/7'10"
weight: 520 kg/1150 lb



2925 mm/9'7"
weight: 608 kg/1340 lb

	With 1800 mm/ 5'11" arm	With 2400 mm/ 7'10" arm	With 2925 mm/ 9'7" arm	With 2925 mm/ 9'7" arm + 1130 mm/3'8" arm extension
A. Max. digging height (m/ft, in)	8.63/28'4"	8.91/29'3"	8.96/29'5"	9.31/30'7"
B. Max. dumping height (m/ft, in)	5.91/19'5"	6.18/20'3"	6.23/20'6"	6.61/21'8"
C. Max. digging depth (m/ft, in)	5.43/17'10"	6.04/19'10"	6.55/21'6"	7.68/25'2"
D. Max. vertical wall digging depth (m/ft, in)	4.95/16'3"	5.58/18'4"	5.97/19'7"	7.09/23'3"
E. Max. digging depth of cut for 2440 mm (8') level bottom (m/ft, in)	5.17/16'11"	5.81/19'1"	6.35/20'10"	7.52/24'8"
F. Max. digging reach at ground level (m/ft, in)	8.65/28'5"	9.23/30'3"	9.66/31'8"	10.69/35'1"
Bucket digging force (kg/lb)	10700/23,590	10700/23,590	10700/23,590	10700/23,590
Arm crowd force (kg/lb)	11900/26,230	10300/22,710	8800/19,400	7000/15,430

STANDARD EQUIPMENT

- Adjustable oil suspension seat with arm rest and reclining device
- Air cleaner service indicator
- All-weather steel cab, pull-up front window with wiper, safety-glass windows and floor mat
- Alternator (25A)
- Auto-decelerator
- Batteries (24V/110 Ah x 2)
- Bolt-on sprocket
- Counterweight (2910 kg/6420 lb)
- Dry-type air cleaner
- EOLSS system
- Electric horn
- Electric starting motor (24 V/7.5 kW)
- Front lights (2)
- Fuel level sight gauge
- Full hydrostatic drive
- Heater and defroster
- Hydraulic oil level sight gauge
- Hydraulic track adjusters
- Monitor system with gauges and caution lamps
- PPC (proportional pressure control) hydraulic control
- Rearview mirror
- Room lamp
- Seat belt
- Shoes—triple grouser (710 mm/28")
- Service indicator
- Suction fan
- Swing holding brake
- Tool kit
- Track guiding guards (center section)
- Vandalism protection locks

BACKHOE BUCKETS AVAILABLE

KOMATSU

Type	Backhoe Bucket				
Capacity: (m ³ /yd ³) SAE, PCSA heaped SAE struck	0.50/0.65 0.39/0.51	0.80/1.05 0.60/0.78	0.93/1.22 0.67/0.88	1.05/1.37* 0.75/0.98	1.17/1.53** 0.83/1.09
Width (mm/in) with side cutters without side cutters	855/33.7 750/29.5	1150/45.3 1045/41.1	1305/51.4 1200/47.2	— 1330/52.4	— 1450/57.1
Weight (kg/lb) (with teeth) with side cutters without side cutters	440/970 406/895	576/1,270 542/1,195	590/1,301 556/1,226	— 620/1,367	— 660/1,455
Number of teeth	3	5	5	6	6

*Does not accommodate side cutters and cannot be used with arm extension.

**Does not accommodate side cutters. Use only with short or extra short arm.

ESCO

- .39 m³ (.50 yd³) Heavy duty
- .60 m³ (.75 yd³) Heavy duty

OPTIONAL SHOES

STANDARD UNDERCARRIAGE

Shoe width (mm/in)	610/24.0	810/31.9	910/36.0
Ground pressure (kg/cm ² /PSI)	0.42/5.97	0.32/4.55	0.29/4.12
Additional weight (kg/lb)	-280/-620	280/620	560/1,240

LC UNDERCARRIAGE

Shoe width (mm/in)	610/24.0	810/31.9	910/36.0
Ground pressure (kg/cm ² /PSI)	0.39/5.55	0.30/4.27	0.28/3.98
Additional weight (kg/lb)	-290/-640	290/640	580/1,280

OPTIONAL EQUIPMENT

- Air conditioner
- Windshield washer

From:

Date received:

AESS209-02

Materials and specifications are subject to change without notice

KOMATSU

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