

# PC150 PC150LC-3

HYDRAULIC EXCAVATOR



Model shown may include optional equipment

**FLYWHEEL HORSEPOWER: 99HP @ 2200 RPM    BUCKET CAPACITY: .40-.75m<sup>3</sup> (.50-1.0 yd<sup>3</sup>)**  
**OPERATING WEIGHT: 14590kg (32,165 lb) / WITH LC UNDERCARRIAGE: 15180kg (33,465 lb)**

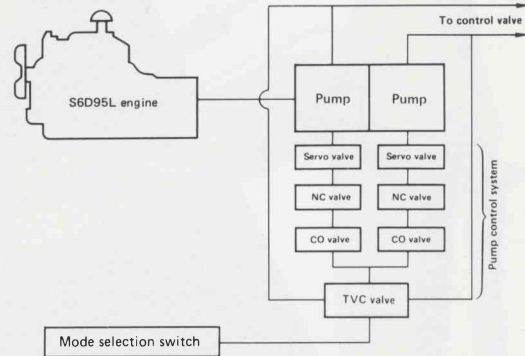
- Operating mode selection switch saves fuel in light duty applications
- OLSS system conserves fuel by preventing neutral, fine control and relief losses
- Additional fuel savings from the autodeceleration system, which automatically lowers engine speed whenever the work equipment and travel controls are in neutral
- Large tinted glass area and wrist control levers add to the operator's comfort and productivity
- Variable displacement hydraulic pumps modify the rate of oil flow to match the application
- Arm merge circuit reduces cycle time and straight travel valve allows safe, simultaneous operations
- Quiet, fuel-efficient Komatsu S6D95L fuel injected turbo diesel
- Electronic display/monitor panel continuously monitors all systems for reduced downtime



# 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 PC-150-3 allows the operator to match the force of the pumps to the application. The Standard Mode should be selected for general digging and loading. The Light Duty Mode makes it possible to maintain cycle times and save fuel by reducing the driving power of the pumps.



**OLSS (Open-Center Load Sensing System)** — is built into the hydraulic system as a means of reducing 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.



## Designed for Maximum Operator Productivity

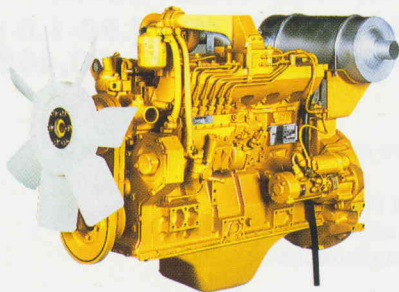
**Human engineered cab** — is both roomy and efficient. The large area of tinted glass allows the operator excellent visibility. Five-way seat with armrests, short stroke wrist-control levers, pull-up front window and travel pedals with levers work together to help your operator maximize production.

**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.



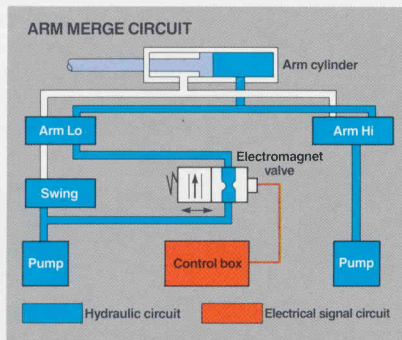
**Komatsu S6D95L** — provides 99 HP and 4.89 ltr. (298 in<sup>3</sup>) displacement. The S6D95L (also used in the powerful WA150 wheel loader) is a 6-cylinder, direct injected turbo diesel that operates quietly and efficiently.



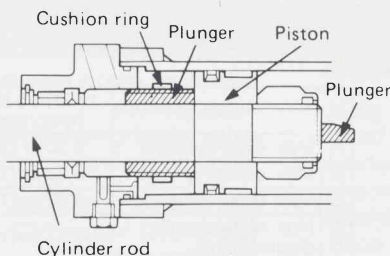
# Provides . . .

## ...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.

**LC undercarriage** — is also available to add weight and stability, which means better performance and higher productivity.



## At Komatsu the Quality is Standard

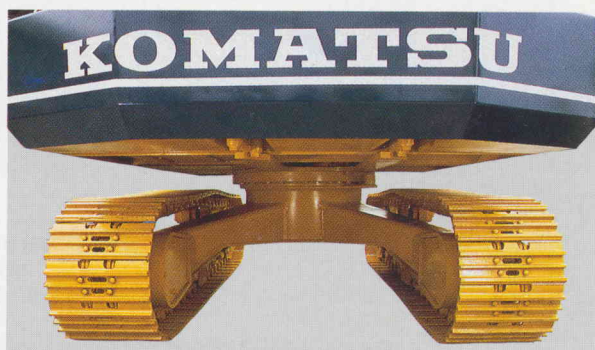
**Electronic monitoring system** — is a display panel which continuously monitors all operating systems. If a malfunction should occur the operator is immediately warned which system is experiencing trouble, saving valuable time lost searching for the problem. Also, gauges constantly monitor service 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 S6D95L 4-cycle, water-cooled, turbocharged diesel engine with 6 cylinders and a 95mm (3.74") bore x 115mm (4.53") stroke for a 4.89 ltr. (298 in<sup>3</sup>) piston displacement.

### Flywheel horsepower:

**99HP** (74 kW) at **2200 RPM** (SAE J1349)

Direct-injection fuel system and all speed mechanical governor. Gear pump-driven force lubrication with full-flow filter. Dry type air cleaner with automatic dust evacuator and dust indicator. A 24V/5.5 kW electric starter motor. A 24V/25A alternator and two 12V/110 Ah batteries.



## HYDRAULIC SYSTEM

### Hydraulic pumps

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

Capacity (discharge flow) with engine at 2200 RPM:

Piston pumps . . . . .2x144 ltr. (**38 U.S. gal**)/min.  
at 320 kg/cm<sup>2</sup> (**4550 psi**)

Gear pump. . . . .55 ltr. (**14.5 U.S. gal**)/min.  
at 30 kg/cm<sup>2</sup> (**430 psi**)

### Hydraulic motors

Travel . . . . .two axial piston motors with brake valve and parking valve

Swing . . . . .one axial piston motor with swing brake valve and swing brake

### Relief valve setting

Implement circuits . . . . .320 kg/cm<sup>2</sup> (**4,550 psi**)

Swing circuits . . . . .235 kg/cm<sup>2</sup> (**3,340 psi**)

Pilot circuits . . . . .30 kg/cm<sup>2</sup> (**430 psi**)

### Control valves

4-spool valve and 5-spool valve with a service spool.

### Hydraulic cylinders

Cylinder	Number	Bore x Stroke
Boom	2	110mm (4.3") x 1150mm (45.3")
Arm	1	120mm (4.7") x 1280mm (50.4")
Bucket	1	100mm (3.9") x 1025mm (40.4")

Swing arm, bucket and boom controls per SAE J1177



## STEERING

Two pivoting foot pedals with detachable levers are provided as travel/steering controls. Each pedal/lever operates its corresponding track. Forward pressure on the pedal/lever results in forward motion of the track and machine while backwards pressure moves the machine backwards. Movement of one pedal/lever results in a pivot turn and opposite pedal/lever movements produce a static counterrotational turn.



## DRIVES

Full hydrostatic transmission. Each track independently driven by an axial-piston motor through a single-reduction planetary. Travel motors are protected by a steel cover and are installed completely within the track shoe width for maximum protection.

### Standard undercarriage:

Maximum drawbar pull . . . . .10500 kg (**23,150 lb**)

Maximum travel speed . . . . .3.9 km/h (**2.4 MPH**)

### LC undercarriage:

Maximum drawbar pull . . . . .11600 kg (**25,575 lb**)

Maximum travel speed . . . . .3.6 km/h (**2.2 MPH**)



## BRAKES

Spring applied, hydraulically released wet disc parking brakes are built into each travel motor. A brake valve automatically limits travel speed during descent. Brakes automatically lock when control pedal/levers are in neutral.



## SWING SYSTEM

The swing system is driven by a motor through spur and planetary reduction gears. Swing circle contains a row of shear-type ball bearings with induction-hardened internal gears. Grease-bathed swing pinion. Pin-lock type swing lock is provided. Swing speed is proportional to swing control lever stroke.

Swing speed . . . . .**12 RPM**

Tail swing radius . . . . .2445 mm (**8'**)

Minimum swing radius

(work equipment fully retracted) . . . . .3330mm (**10'11"**)



## UNDERCARRIAGE

X-leg center frame and box-section track frames manufactured of reinforced rolled steel. Track is sealed with lifetime lubricated rollers and idlers. Hydraulic track adjuster with shock-absorbing spring. Triple-grouser track shoes.

### Standard undercarriage:

Shoe width . . . . .460mm (**18"**)

Grouser height . . . . .25mm (**1"**)

Number of shoes . . . . .44 each side

Carrier rollers . . . . .1 each side

Track rollers . . . . .6 each side

Ground pressure . . . . .51 kg/cm<sup>2</sup> (**7.25 psi**)

### LC undercarriage:

Shoe width . . . . .460mm (**18"**)

Grouser height . . . . .25 mm (**1"**)

Number of shoes . . . . .47 each side

Carrier rollers . . . . .1 each side

Track rollers . . . . .6 each side

Ground pressure . . . . .0.49 kg/cm<sup>2</sup> (**6.97 psi**)



## SERVICE REFILL CAPACITIES

Fuel tank . . . . .230 ltr. (**60.8 U.S. gal**)

Radiator . . . . .18.5 ltr. (**4.9 U.S. gal**)

Engine . . . . .10.5 ltr. (**2.8 U.S. gal**)

Final drive (each side) . . . . .2.5 ltr. (**.7 U.S. gal**)

Swing drive . . . . .7.0 ltr. (**1.8 U.S. gal**)

Hydraulic tank . . . . .134 ltr. (**35.4 U.S. gal**)



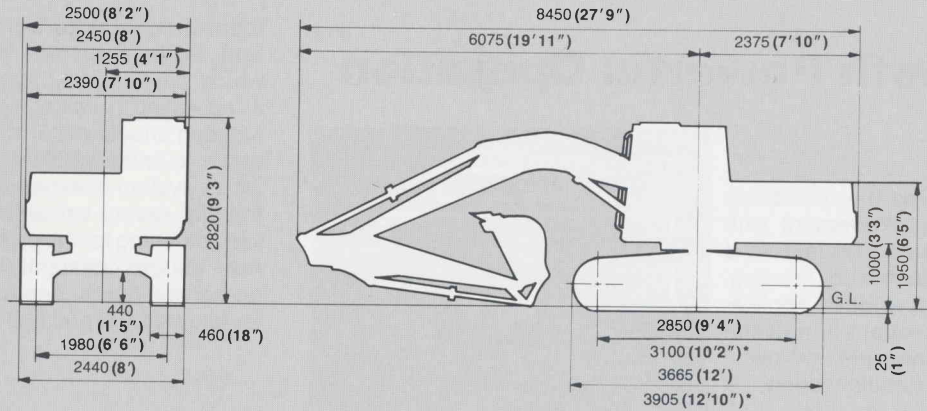
## OPERATING WEIGHT

Operating weight including 5150mm (16'11") one-piece boom, 2610 mm (8'7") arm, SAE heaped .63m<sup>3</sup> (.82 yd<sup>3</sup>) backhoe bucket, operator, lubricant, coolant, full fuel tank and other standard equipment . . . . .14590 kg (**32,165 lb**)  
With LC undercarriage . . . . .15180 kg (**33,465 lb**)



## DIMENSIONS

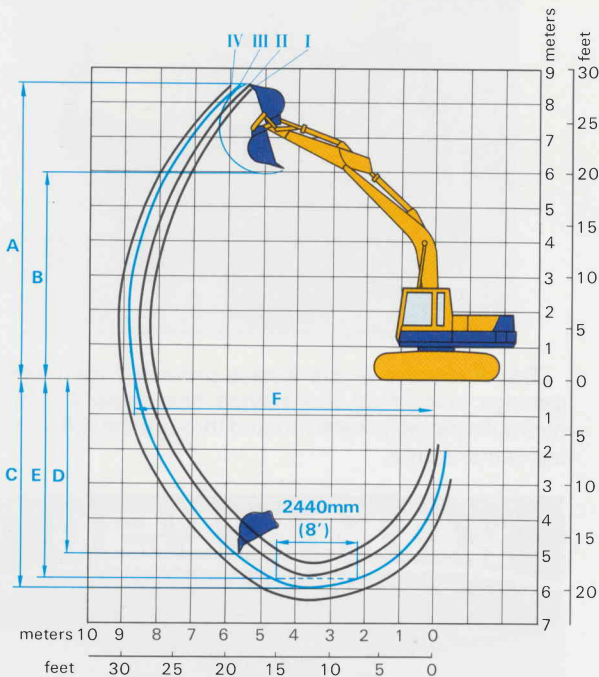
Unit: mm (ft.in)



With 5150 mm (16'11") one-piece boom, 2610 mm (8'7") arm, SAE heaped 0.63 m<sup>3</sup> (0.82 yd<sup>3</sup>) backhoe bucket.  
\*LC undercarriage dimensions



## WORKING RANGE



Arm	1850 mm (6'1") extra heavy duty arm (I)	2250 mm (7'5") light duty arm (II)
A Max. digging height	8.20 m (26'11")	8.33 m (27'4")
B Max. dumping height	5.62 m (18'5")	5.78 m (19')
C Max. digging depth	5.30 m (17'5")	5.70 m (18'8")
D Max. vertical wall digging depth	4.37 m (14'4")	5.55 m (14'11")
E Max. digging depth of cut for 2440 mm (8') level bottom	5.02 m (16'6")	5.43 m (17'10")
F Max. digging reach at ground level	8.14 m (26'8")	8.44 m (27'8")
Bucket digging force	8500 kg (18,740 lb)	8500 kg (18,740 lb)
Arm crowd force	9200 kg (20,280 lb)	7400 kg (16,310 lb)

Arm	2610 mm (8'7") general duty arm (III)	2900 mm (9'6")* heavy duty arm (IV)
A Max. digging height	8.50 m (27'11")	8.70 m (28'7")
B Max. dumping height	5.95 m (19'6")	6.13 m (20'1")
C Max. digging depth	6.05 m (19'10")	6.34 m (20'10")
D Max. vertical wall digging depth	5.09 m (16'8")	5.35 m (14'11")
E Max. digging depth of cut for 2440 mm (8') level bottom	5.82 m (19'1")	6.13 m (20'1")
F Max. digging reach at ground level	8.80 m (28'10")	9.10 m (29'10")
Bucket digging force	8500 kg (18,740 lb)	8500 kg (18,740 lb)
Arm crowd force	6600 kg (14,550 lb)	6200 kg (13,670 lb)

## BACKHOE BUCKETS

Bucket Type	General Purpose	Narrow*	Light-duty
SAE, PCSA heaped struck	.63 m <sup>3</sup> (.82 yd <sup>3</sup> ) .46 m <sup>3</sup> (.60 yd <sup>3</sup> )	.57 m <sup>3</sup> (.75 yd <sup>3</sup> ) .42 m <sup>3</sup> (.55 yd <sup>3</sup> )	.75 m <sup>3</sup> (.98 yd <sup>3</sup> ) .54 m <sup>3</sup> (.71 yd <sup>3</sup> )
Number of bucket teeth	5	4	5
Bucket width with side cutters without side cutters	1085 mm (3'7") 960 mm (3'2")	1025 mm (3'4") 900 mm (2'11")	— 1100 mm (3'7")
Bucket weight with side cutters without side cutters	465 kg (1,025 lb) 445 kg (980 lb)	435 kg (960 lb) 415 kg (915 lb)	— 450 kg (990 lb)

\*2900 mm (9'6") arm should only be used with .57 m<sup>3</sup> (.75 yd<sup>3</sup>) narrow bucket

# TRANSPORTATION WEIGHT TABLE

COMPONENT	APPROX. WEIGHT
1850 mm (6'1") Arm (with cylinder)	.400 kg (880 lb)
2250 mm (7'5") Arm (with cylinder)	.550 kg (1,210 lb)
2610 mm (8'7") Arm (with cylinder)	.580 kg (1,280 lb)
2900 mm (9'6") Arm (with cylinder)	.625 kg (1,375 lb)
Boom (including cylinders)	1500 kg (3,305 lb)
Counterweight	.2450 kg (5,400 lb)

## STANDARD EQUIPMENT

- 24V/5.5 kW Electric starting motor
- 24V/25A Alternator
- Dry type air cleaner
- Proportional pilot controls
- OLSS hydraulic system
- Mode selection system
- Autodeceleration system
- Full hydrostatic drive
- Tool kit
- Pedal directional controls with detachable levers
- Oil suspension seat with arm rest and seat belt
- Vandalism protection locks
- Electronic display/monitor panel
- Swing holding brake
- Hydraulic wrist control levers
- 460 mm (18") triple grouser shoes
- Enclosed cab including: heater and defroster, windshield wiper, tinted safety glass, floor mat, pull up front window, lockable door, electric horn, room lamp
- Fuel level sight gauge
- Hydraulic oil level sight gauge
- Air cleaner service indicator

## OPTIONAL EQUIPMENT

### Buckets

- .63 m<sup>3</sup> (.82 yd<sup>3</sup>) Standard duty
- .57 m<sup>3</sup> (.75 yd<sup>3</sup>) Narrow
- .75 m<sup>3</sup> (.98 yd<sup>3</sup>) Light-duty
- ESCO heavy duty buckets with wear shrouds also available
- Side cutters available for Komatsu buckets

### Arms

- 1850 mm (6'1") extra short arm
- 2250 mm (7'5") short arm
- 2610 mm (8'7") standard arm
- 2900 mm (9'6") long arm

### Shoes

Type	Additional Weight	Machine Ground Pressure
510 mm (20") triple grouser	115 kg ( 255 lb)	.46 kg/cm <sup>2</sup> (6.54 psi)
610 mm (24") triple grouser	240 kg ( 530 lb)	.39 kg/cm <sup>2</sup> (5.55 psi)
710 mm (28") triple grouser	470 kg (1,035 lb)	.34 kg/cm <sup>2</sup> (4.84 psi)
810 mm (32") triple grouser	710 kg (1,565 lb)	.30 kg/cm <sup>2</sup> (4.27 psi)

### Others

- Windshield washer
- Rearview mirror
- Air conditioner

## LC UNDERCARRIAGE

### Shoes

Type	Additional Weight	Machine Ground Pressure
510 mm (20") triple grouser	120 kg ( 265 lb)	.45 kg/cm <sup>2</sup> (6.40 psi)
610 mm (24") triple grouser	250 kg ( 550 lb)	.38 kg/cm <sup>2</sup> (5.40 psi)
710 mm (28") triple grouser	500 kg (1,100 lb)	.33 kg/cm <sup>2</sup> (4.69 psi)
810 mm (32") triple grouser	740 kg (1,630 lb)	.30 kg/cm <sup>2</sup> (4.27 psi)

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.



ÉQUIPEMENT FÉDÉRAL QUÉBEC LIMITÉE  
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