

KOMATSU PC95

avance
series

Hydraulic
Excavator



Flywheel Horsepower:

72.5 HP 54 kW @ 2000RPM

Operating Weight:

20,084 lb 9110 kg

Bucket Capacity Range:

0.18-0.46 yd³ 0.14-0.35 m³

KOMATSU

HYDRAULICS

With its impressive power and ease of operation the PC95 excavator is in a class of its own. Built to the highest quality standards and incorporating state-of-the-art design technology, this unit can carry out heavy duty digging in the most difficult conditions and still deliver maximum productivity and economy.

MULTIMODE HYDRAULICS

The new PC95-1 features a state-of-the-art hydraulic system that can assure the highest operational efficiency and effectiveness. The system, called MULTIMODE, uses a double, variable displacement pump and a third gear pump that incorporate a special "multi-function" device that can assure perfect, simultaneous movement of the digging equipment while placing a priority on the rotation movement. The MULTIMODE feature allows the operator to choose between two different speed levels of the digging equipment.

- The NORMAL position allows maximum power and speed.
- The ECONOMIC position reduces hydraulic power thus reducing fuel consumption.

In either setting the hydraulic force remains the same while operating speed is reduced in the economic setting.

PC95

The main feature of the new excavator is versatility. Modern design allows the PC95 to offer a broad range of features in a design ideally suited for urban areas.

HYDRAULIC CUSHIONS

The hydraulic cushions inside the cylinders of the boom and arm absorb shock during operation movements assuring stability of the machine while improving operator comfort.

EXTRA HYDRAULIC LINES

The hydraulic lines for attachments are standard and extend to the end of the arm for easy attachment of a wide range of hydraulic devices with no further modification needed.



SWING BOOM

The Swing Boom enhances operational maneuverability by offsetting 60 degrees to either side. This permits the operator to work comfortably even in areas difficult to access.

DOZER BLADE

The dozer blade can be used for backfilling and to guarantee the best performance in lifting and positioning operations. It also helps stabilize the machine when it is necessary to work on steep slopes.





ERGONOMIC CAB

The all-weather spacious cab has excellent visibility while offering a comfortable work environment.

- Fully adjustable suspension seat
- Ergonomic controls
- Excellent ventilation
- Tinted glass



UNIQUE DISPLAY FOR SYSTEMS MONITORING

A comprehensive and clearly laid out monitor provides an instant overview of key operating data, such as fuel level indication and other critical check parameters.



TRAVEL MOTORS

The crawler travel motors are located within the track frame, a design that offers:

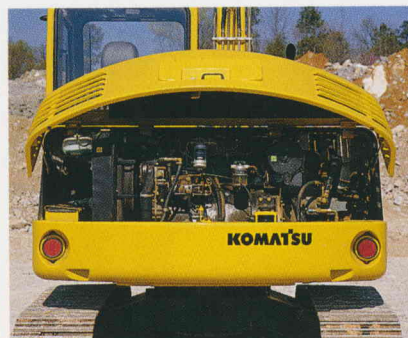
- Extra protection against damage
- A longer reliable service life
- Reduced costly and unscheduled downtime
- Less maintenance

SWING RADIUS

The 4'11" tail swing radius allows an operator to work confidently in tight situations.

POWERFUL ENGINE

The PC95 is equipped with a Perkins engine that develops 73 HP at 2000 RPM. The low RPM's of this engine assure maximum power with a minimum of noise, vibration and fuel consumption. The engine is mounted transversely in the engine compartment to allow easy access and simplify any necessary maintenance.



9" min.
15.5" max.

PC95 specifications



ENGINE

Model Perkins 1004.4
 Type 4 cycle, water cooled, direct injection
 Aspiration Natural
 No. of cylinders 4
 Bore **3.94 in** 100 mm
 Stroke **5.00 in** 127 mm
 Piston displacement **244 in³** 3.99 ltr.
 Flywheel horsepower
 (SAEJ1349) **72.5 HP** 54kW @ 2000 RPM
 (DIN 6270 net) **73.5 PS** 54kW @ 2000 RPM
 Governor All-speed, mechanical



HYDRAULIC SYSTEM

Type "Multimode" open circuit
 No. of selectable modes 2 (Power/Economy)

Main pumps

Pump for: Boom, arm, bucket and travel circuits
 Type: Double variable-capacity piston pump
 Maximum flow: 2 x **19.5 gal/min** 2 x 74 ltr.
 Pump for: Swing, implements and control circuits
 Type: Fixed capacity gear pump
 Maximum Flow: 1 x **15.3 gal/min** 1 x 58 ltr.

Hydraulic motors

Travel 2 x axial piston motor with parking brake
 Swing 1 x axial piston motor

Relief valve setting

Implement circuits **3,982 / 4,978 PSI** 280/350 kg/cm²
 Travel circuit **4,978 PSI** 350 kg/cm²
 Swing circuit **2,702 PSI** 186 kg/cm²
 Pilot circuit **498 PSI** 34 kg/cm²

Hydraulic cylinders

No. of cylinders - bore x stroke
 Boom 1 x **4.7 x 30.3 in** 120 x 770 mm
 Arm 1 x **3.94 x 35.4 in** 100 x 900 mm
 Bucket 1 x **3.54 x 31.5 in** 90 x 800 mm



SWING SYSTEM

Driven by Hydraulic motor
 Swing reduction Double planetary gear reduction
 Swing circle lubrication Grease bath
 Swing lock Automatic wet discs brake
 Swing speed **8.4 rpm**
 Tail swing radius **4'11"** 1500 mm
 Min. swing radius (with **6'1"** arm) **8'0"** 2450 mm



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 counter rotate on the spot.



DRIVE & BRAKES

Steering control Two levers with pedals
 Drive method Fully hydrostatic type
 Drive motor Axial-piston motor, in-shoe design
 Reduction system Planetary double reduction
 Max drawbar pull **18,120 lbs** 8060 daN
 Max travel speed (high) **3.42 mph** 5.5 km/h
 Max travel speed (low) **2.11 mph** 3.4 km/h
 Gradability 70% (35°) limited by engine inclination
 Service brake Hydraulic braking valves
 Parking brake Automatic oil disc brake



BLADE

Type Welded, unitised construction of blade and frame
 Blade width x height **7'2" X 1'4"** 2200 x 400 mm
 Max. lift above ground **1'3"** 380 mm
 Max. drop below ground **1'7"** 480 mm



UNDERCARRIAGE

Center frame: High resistance welded one-piece lower frame
 Track frame: Box section type
 Track adjuster: Hydraulic type
 No. of shoes (each side): 44
 No. of carrier roller (each side): 1
 No. of track rollers (each side): 6



CAB

Sound-insulated all-weather steel cab, safety glass windows, slide-up front window, lockable door, window screen wiper, electric horn, cab lamp, adjustable pillow type seat with reclining device, monitor system and gauges.



COOLANT & LUBRICANT CAPACITY (refilling)

Fuel tank **37 gal** 140 ltr.
 Radiator **5.3 gal** 20 ltr.
 Engine **3.3 gal** 12.5 ltr.
 Swing drive **0.7 gal** 2.6 ltr.
 Hydraulic tank **21.7 gal** 82 ltr.
 Final reduction (each side) **0.3 gal** 1 ltr.



OPERATING WEIGHT

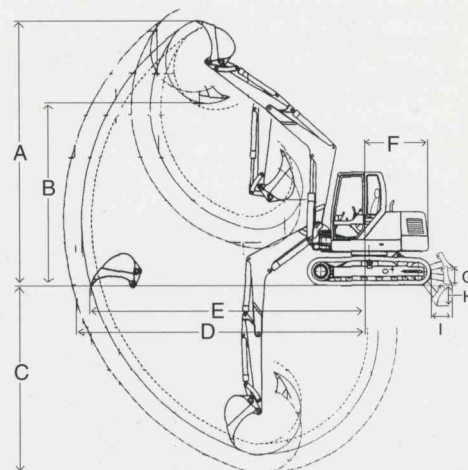
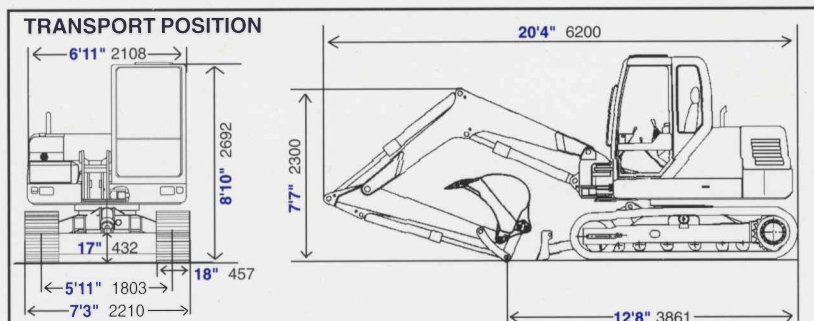
Operating weight includes **9'7"** 2950 mm one piece boom, **6'0"** 1850 mm arm, SAE heaped **0.34 yd³** 0.23 m³ backhoe bucket, blade, operator, lubricant, coolant, full fuel tank and the standard equipment:

Shoe width	Operating weight	Ground pressure
19.5" 500 mm	19,687 lb 8930 kg	4.7 PSI 0.33 kg/cm ²
23.6" 600 mm	20,084 lb 9110 kg	4.0 PSI 0.28 kg/cm ²



DIMENSIONS

Unit: ft. in. mm



WORKING RANGE & BUCKET/ARM COMBINATION

Arm length	ft, in	mm	6'0"	1850	7'5"	2300
A Max. digging height			21'5"	6520	23'3"	7090
B Max. dumping height			14'0"	4275	14'11"	4550
C Max. digging depth			13'1"	3985	14'7"	4435
D Max. digging reach			22'6"	6850	23'11"	7280
E Max. digging reach at ground			21'10"	6660	23'4"	7110
F Min. swing radius			8'0"	2450	8'0"	2450
G Max. lift above ground			1'3"	380	1'3"	380
H Max. drop below ground			1'7"	480	1'7"	480
I Blade reach at ground level			1'7"	475	1'7"	475
Bucket breakout force	lbs	kg	16,074	7291	16,074	7291
Arm breakout force	lbs	kg	9,555	1928	8,206	1656



BACKHOE BUCKET AND ARM COMBINATION

	Bucket Capacity		OLW		Weight		No. of Teeth	Arm	
	yd ³	m ³	in.	mm	lb.	kg		6'0" 1850mm	7'5" 2300mm
ESCO STDP	0.24	0.18	18"	457	419	190	3	O	O
	0.34	0.26	24"	610	487	221	4	O	O
	0.45	0.34	30"	762	546	248	4	O	△
	0.56	0.43	36"	914	621	282	5	△	X

O: Material weight up to **3,040 lb./yd³** 1.8 ton/m³

△: Material weight up to **2,020 lb./yd³** 1.2 ton/m³

X: Not usable



LIFTING CAPACITY

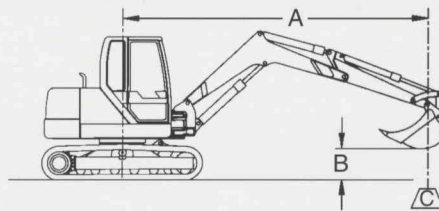
EQUIPMENT:

Boom: **9'7"** 2920 mm

Bucket: **0.39 yd³** 300 ltr.

Shoes: **19.5"** 500 mm

Counterweight: **2,525 lbs** 1145 kg



A: Reach from swing centerline

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side or 360°

⊗: Rating at maximum reach

Arm: **6'0"** 1850 mm

Blade above Ground

unit: **lb** kg

B A	10' 3.0 m		15' 4.5 m		⊗ MAX.	
	Cf	Cs	Cf	Cs	Cf	Cs
15' lb 4.5 m kg					*3,527 *1600	*3,527 *1600
10' lb 3 m kg			*3,086 *1400	2,866 1300	*3,086 *1400	*2,205 *1000
5' lb 1.5 m kg	*6,614 *3000	5,512 2500	3,968 1800	2,866 1300	2,535 1150	1,764 800
0' lb 0 m kg	7,716 3500	5,071 2300	3,968 1800	2,756 1250	*2,425 *1100	1,653 750
-5' lb -1.5 m kg	7,385 3350	4,850 2200	3,858 1750	2,646 1200	2,756 1250	1,874 850
-10' lb -3 m kg	7,385 3350	4,850 2200			4,189 1900	2,866 1300

Ratings are based on SAE Standard No.J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tip load. *Load is limited by hydraulic capacity rather than tipping.

Arm: **6'0"** 1850 mm

Blade on Ground

unit: **lb** kg

B A	10' 3.0 m		15' 4.5 m		⊗ MAX.	
	Cf	Cs	Cf	Cs	Cf	Cs
15' lb 4.5 m kg					*3,527 *1600	*3,527 *1600
10' lb 3 m kg			*3,086 *1400	2,866 1300	*3,638 *1650	*2,205 *1000
5' lb 1.5 m kg	*6,614 *3000	5,512 2500	*4,189 *1900	2,866 1300	*3,858 *1750	1,764 800
0' lb 0 m kg	*11,685 *5300	5,071 2300	*5,732 *2600	2,756 1250	*4,189 *1900	1,653 750
-5' lb -1.5 m kg	*12,125 *5500	4,850 2200	*6,614 *3000	2,646 1200	*4,630 *2100	1,874 850
-10' lb -3 m kg	*9,259 *4200	4,850 2200			*5,291 *2400	2,866 1300

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LIFTING CAPACITY

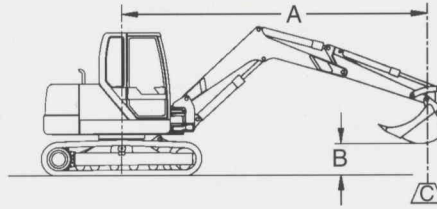
EQUIPMENT:

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Bucket: **0.39 yd³** 300 ltr.

Shoes: **19.5"** 500 mm

Counterweight: **2,525 lbs** 1145 kg



A: Reach from swing centerline

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side or 360°

⊗: Rating at maximum reach

Arm: **7'5"** 2300 mm

Blade above Ground

unit: **lb kg**

B A	10' 3.0 m		15' 4.5 m		20' 6.0 m		⊗ MAX.	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
15' lb 4.5 m kg							*3,197 *1450	2,976 1350
10' lb 3 m kg			*2,866 *1300	2,646 1200	2,646 1200	1,984 900	2,756 1250	1,874 850
5' lb 1.5 m kg	*6,393 *2900	5,291 2400	3,748 1700	2,646 1200	2,205 1000	1,653 750	2,315 1050	1,543 700
0' lb 0 m kg	7,496 3400	4,850 2200	3,748 1700	2,535 1150	2,094 950	1,543 700	2,205 1000	1,433 650
-5' lb -1.5 m kg	7,275 3300	4,630 2100	3,748 1700	2,425 1100	2,425 1100	1,764 800	2,535 1150	1,653 750
-10' lb -3 m kg	7,275 3300	4,630 2100					3,527 1600	2,425 1100

Ratings are based on SAE Standard No.J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tip load. *Load is limited by hydraulic capacity rather than tipping.

Arm: **7'5"** 2300 mm

Blade on Ground

unit: **lb kg**

B A	10' 3.0 m		15' 4.5 m		20' 6.0 m		⊗ MAX.	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
15' lb 4.5 m kg							*3,197 *1450	2,976 1350
10' lb 3 m kg			*2,866 *1300	2,646 1200	*3,417 *1550	1,984 900	*3,307 *1500	1,874 850
5' lb 1.5 m kg	*6,393 *2900	5,291 2400	*3,968 *1800	2,646 1200	*3,638 *1650	1,653 750	*3,527 *1600	1,543 700
0' lb 0 m kg	*11,464 *5200	4,850 2200	*5,512 *2500	2,535 1150	*3,968 *1800	1,543 700	*3,858 *1750	1,433 650
-5' lb -1.5 m kg	*11,905 *5400	4,630 2100	*6,393 *2900	2,425 1100	*4,409 *2000	1,764 800	*4,409 *2000	1,653 750
-10' lb -3 m kg	*9,039 *4100	4,630 2100					*5,071 *2300	2,425 1100

Ratings are based on SAE Standard No.J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tip load. *Load is limited by hydraulic capacity rather than tipping.

A yellow Komatsu excavator is shown from a rear three-quarter view, parked on a gravel surface. The machine's boom and arm are visible, extending upwards. The rear of the machine features a large yellow engine housing with horizontal ventilation slats on both sides. The tracks are black with metal links. The background shows a hilly, wooded area under a clear sky.

STANDARD EQUIPMENT

- Air Cleaner, double element
- Alternator, 55 amp
- Batteries, 1 x 12 V/155 AH
- Boom, offset type (60° right 60° left)
- Cab which includes: all weather sound suppression, tinted safety glass windows, pull-up front window with lock device, removable lower windshield, large ceiling hatch, lockable door, window wiper, electric horn, heater, cab light.
- Cooling fan, suction type
- Counterweight, **2,525 lb** 1145 kg
- Dozer blade, **7' 2"** 2200mm
- Engine, Perkins 1004.4, 4 cycle, water cooled, direct injection, natural aspiration diesel
- Hydraulic line for attachments
- Instrument panel
- Lift capacity chart
- Light, 1 (RH)
- Rearview mirror (RH)
- Seat, fully adjustable suspension type with seat belt
- Shoes, **19.5"** 500 mm triple grouser
- Starting motor, 2.8 kW
- Vandalism protection locks for cab door, engine cover, and fuel filling cap
- Working mode selection system

OPTIONAL EQUIPMENT

- Arm, assembly
 - **6'0"** 1850 mm
 - **7'5"** 2300 mm
- Dozer blade, **7' 9"** 2400mm
- Shoes, **23.6"** 600mm
- Option for Esco Bucket (sold only with bucket)
 - Play adjustment mechanism
 - Side cutters, weld on type

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KOMATSU

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