

PC05-6

HYDRAULIC EXCAVATOR



Canopy is optionally available.
Model shown may include other optional equipment.

KOMATSU: The Quality is Standard.

- The Komatsu 3D72 engine with a large piston displacement assures powerful excavation even at partial throttle.
- Extra small min. swing radius makes the PC05 an efficient machine in tight quarters.
- A large boom offset is ideal for trench excavation, etc. in confined areas.
- A wide working range and powerful digging force make excavation easy and efficient.
- In-shoe design of travel motors not only refines the undercarriages but also gives excellent maneuverability in rough terrain.
- All operations are easily made with the long control levers.
- Low noise operation is assured by the rubber-pad-mounted engine.
- Maintenance is facilitated by a full-open machine cover.
- Colored, low-profile machine design is newly employed.

SPECIFICATIONS



ENGINE

Komatsu 3D72-2B 4-cycle, water-cooled, overhead valve diesel engine. 3 cylinders, 72 mm (2.83") bore x 72 mm (2.83") stroke and 0.879 ltr. (58 cu.in) piston displacement.

Flywheel horsepower:

13 HP (9.6 kW) at 2000 RPM (SAE J1349)

13 PS (9.6 kW) at 2000 RPM (DIN 6270 NET)

Swirl-combustion chamber system. All-speed mechanical governor. Force-lubrication driven by trochoid pump. Full-flow filter for lube purification. Dry-type air cleaner. 12 V/1.0 kW electrical starter motor. 12 V/18.5 A alternator. 12 V/45 Ah battery.



HYDRAULIC SYSTEM

Hydraulic pumps

- Tandem gear pumps power the boom, arm, bucket, travel, swing, blade and boom offset circuits.

Capacity (discharge flow) at engine 2000 RPM
12 ltr. (3.1 U.S. gal)/min. x 2

Hydraulic motors

Travel Two axial piston motors with brake valve

Swing One gear motor

Relief valve setting

Implement circuits 175 kg/cm² (2,500 PSI/17.2 MPa)

Travel circuits 175 kg/cm² (2,500 PSI/17.2 MPa)

Swing circuits 85 kg/cm² (1,210 PSI/8.4 MPa)

Control valves

7-spool control valve.

Hydraulic cylinders

Cylinder	Numbers	Bore x Stroke
Boom	1	50 mm x 347 mm (2.0" x 13.7")
Arm	1	50 mm x 442 mm (2.0" x 17.4")
Bucket	1	50 mm x 385 mm (2.0" x 15.2")
Boom offset	1	50 mm x 318 mm (2.0" x 12.5")
Blade	1	60 mm x 60 mm (2.4" x 2.4")



STEERING

Steering/traveling controls are activated with hand levers. Pushing both levers moves machine forward. Pulling them back makes machine go into reverse. Setting one lever 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 type. Each track is independently driven by an axial-piston motor. Power goes through planetary eccentric single-reduction gear to track. Travel motors are neatly installed within track shoe's width (in-shoe design).

Max. drawbar pull 950 kg (2,094 lb/9.3 kN)

Max. travel speed 2.0 km/h (1.2 MPH)



BRAKES

Hydraulic lock type travel motors equipped with brake valve. When travel/steering levers are positioned in neutral, brakes automatically lock. Brake valve limits travel speed during descent.



SWING SYSTEM

Hydraulic motor-driven (orbit motor). Single-row shear type ball bearings with induction-hardened internal gears are built into swing circle. Grease bathed swing pinion. Pin-lock type swing lock is provided. Swing speed is proportional to swing control lever stroke.

Swing speed 10 RPM

Tail swing radius 1070 mm (3'6")

Min. swing radius

Work equipment, fully retracted 1360 mm (4'6") [1310 mm (4'4")]

Work equipment fully retracted and boom swung

70° to right 1220 mm (4')

[90° to right 1050 mm (3'5")]

Boom swing: Boom can be swung 50° to left and 70° [or 90° as an option] to right by boom offset cylinder independent of upper structure swinging.

Boom offset distance: Left 480 mm (1'7") [635 mm (2'1")]

Right 385 mm (1'3")

Figures in [] are for optional 90° swing machine which is available besides the optional machine with cab.



BLADE

Welded, unitized construction of blade and frame.

Blade width x height . . . 960 mm (3'2") x 250 mm (9.84")

Blade cutting angle 71°

Max. lift above ground 175 mm (6.9")

Max. drop below ground 95 mm (3.7")



UNDERCARRIAGE

Box-section track frames. Sealed track. Lubricated rollers and idlers. Hydraulic track adjusters with shock absorbing springs. Welded track-type tractor shoes with double grousers. Shoe width 230 mm (9.1")

Grouser height 15 mm (0.59")

Number of shoes 32 each side

Number of track rollers 3 each side

Ground pressure 0.22 kg/cm² (3.1 PSI/21.2 kPa)



COOLANT & LUBRICANT CAPACITY (refilling)

	Liter	U.S. gallon
Fuel tank	20	5.2
Radiator	3.6	0.95
Engine	3.65	0.96
Final drive, each side	0.3	0.08
Hydraulic tank	16.8	4.4



OPERATING WEIGHT (approximate)

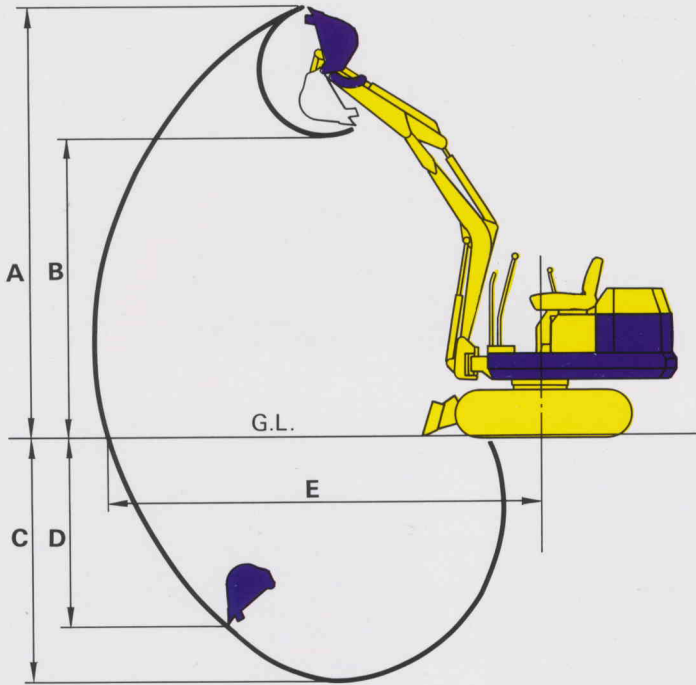
Operating weight including 1640 mm (5'5") one-piece boom, 822 mm (2'8") arm, SAE heaped 0.04 m³ (0.05 cu.yd) backhoe bucket, lubricant, coolant, full fuel tank, standard equipment, operator and canopy (optional) . . . 1230 kg (2,710 lb)

STANDARD EQUIPMENT

12 V/1.0 kW electric starting motor. 12 V/18.5 A alternator. Dry-type air cleaner. Electric horn. Operator's seat with arm rest. 230 mm (9.1") double-grouser shoes. Hydraulic track adjusters. Full hydrostatic drive. 12 V/45 Ah battery. Front light. Alternator charge lamp. Warning lamp for engine oil pressure and temperature. Service meter. Lubricated rollers and idlers. Sealed track. Fuel level gauge. Dozer blade.



WORKING RANGE



Arm length		with 822 mm (2'8") arm	with 1122 mm (3'8") arm
A	Max. digging height	3225 mm (10'7") [3330 mm (10'11")]	3465 mm (11'4") [3580 mm (11'9")]
B	Max. dumping height	2250 mm (7'5") [2340 mm (7'8")]	2480 mm (8'2") [2590 mm (8'6")]
C	Max. digging depth	1880 mm (6'2")	2180 mm (7'2")
D	Max. vertical wall digging depth	1460 mm (4'9")	1835 mm (6')
E	Max. digging reach at ground level	3365 mm (11')	3685 mm (12'1")
Bucket digging force		1070 kg (2,360 lb/10.5 kN)	1070 kg (2,360 lb/10.5 kN)
Arm crowd force		680 kg (1,500 lb/6.6 kN)	555 kg (1,220 lb/5.4 kN)

Figures in [] are for optional 90° swing machine which is available besides the optional machine with cab.

Other track shoes: Choose the rubber-pad shoes when the machine works on paved areas.

Type of shoes	Ground pressure kg/cm ² (PSI/kPa)
230 mm (9") rubber-pad shoes	0.23 (3.27/22.6)
230 mm (9") rubber shoes	0.21 (2.99/20.6)

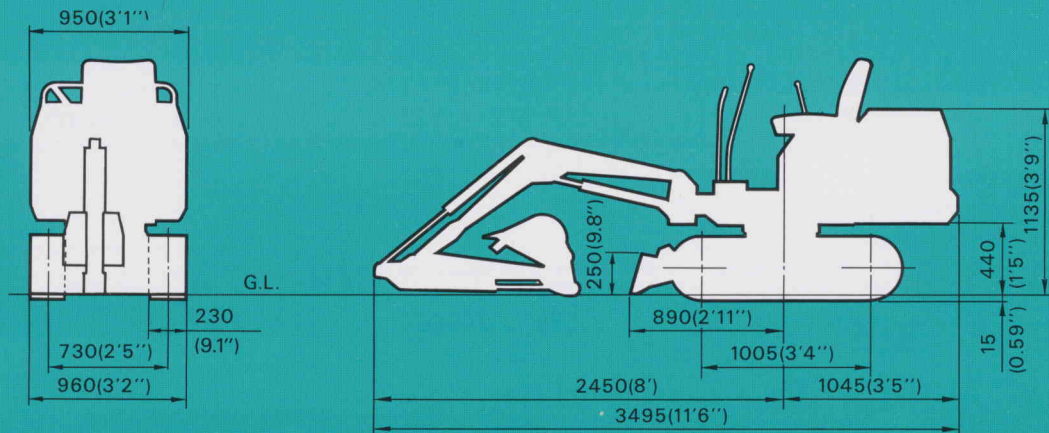
BACKHOE BUCKETS

Capacity : m ³ (cu.yd)		
Heaped (struck x 2)	0.06 (0.08)	0.04 (0.05)
JIS, CECE heaped	0.03 (0.04)	0.02 (0.026)
SAE, PCSA heaped	0.04 (0.05)	0.025 (0.033)
Struck	0.03 (0.04)	0.02 (0.026)
Bucket width : mm (in)		
without side cutters	350 (13.8)	250 (9.8)
with side cutters	400 (15.7)	300 (11.8)
No. of bucket teeth	4	2
Bucket type	Standard bucket	Narrow bucket



DIMENSIONS

Unit : mm (ft.in)



With 1640 mm (5'5") one-piece boom, 822 mm (2'8") arm, SAE heaped 0.04 m³ (0.05 cu.yd) backhoe bucket.

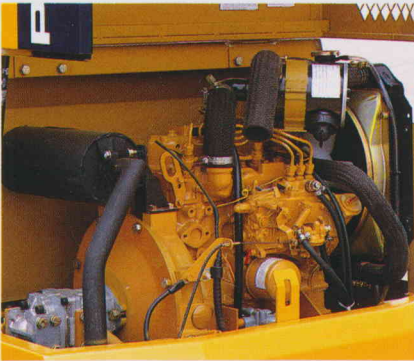


CONTROLS

Human-engineered layout of controls, meters and gauges. Two long control levers, which are employed in the larger class models, ensure quick response and fine controlling of the work equipment. By using switchover pedal for boom offset and swing, the boom offset swing operation can be done with the swing lever. Travel/steering levers positioned alongside each other. Wide floor space and excellent front visibility make operations comfortable. Operator's fatigue is greatly minimized thanks to the rubber-pad-mounted engine.



PRODUCTIVE FEATURES



Komatsu-built 3D72 engine provides a tenacious power of 13 HP (9.6 kW) at 2000 RPM. Its large piston displacement assures powerful excavation even at partial throttle, without fear of stalling.



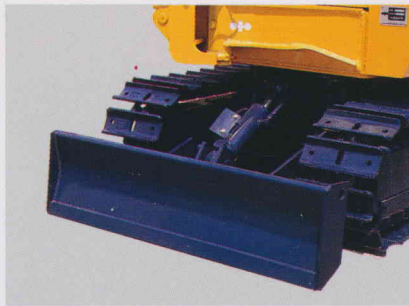
Convenient boom offset: The boom itself can be swung 50° to left and 70° (or 90° as an option) to right side. This means that the PC05-6 can complete quick dig/load operations in extra tight quarters without swinging the upper structure of which the tail end may hit obstacles such as walls, poles, etc.



Wide working range: Equipped with the long boom and arm, the PC05-6 attains a wide working range. This, plus large breakout force make it easy to conduct any type of excavation work.



Full-open machine cover allows quick access to internal components such as engine, hydraulic equipment, etc. for both quick checking and repairing.



Dozer blade: This toughly constructed blade is ideal for refilling and leveling. Due to the advanced control valve mechanism, simultaneous blade actions and machine travel are smooth.



Extra-small min. swing radius makes the PC05-6 an efficient machine in tight quarters. In addition, thanks to small overall width, machine cab pass through narrow roads.

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.

KOMATSU

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