KOMATSU MINI-EXCAVATOR

The machine shown may vary according to territory specifications.

A familiar feel for better control

Speed, comfort, manoeuvrability and economy make this Komatsu mini-excavator the most productive in its range.

The PC10-6 enables the operator, in total comfort, to dig more in less time and using less fuel on any job site.

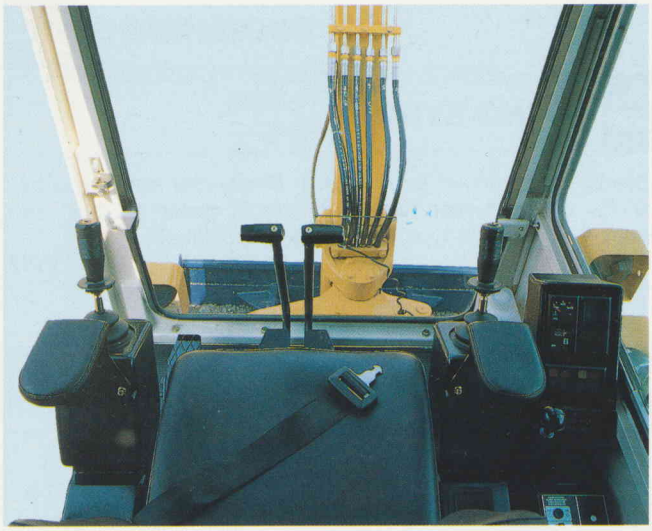
PC10-6
HYDRAULIC EXCAVATOR

FLYWHEEL HORSEPOWER:	16.9 kW (23 PS) at 2200 RPM
BUCKET CAPACITIES: (SAE heaped)	0.03 ~ 0.085 m^3 (0.04 ~ 0.11 cu.yd)
OPERATING WEIGHT*:	2580 kg (5650 lb)

KOMATSU

PC10-6

Greater efficiency with less

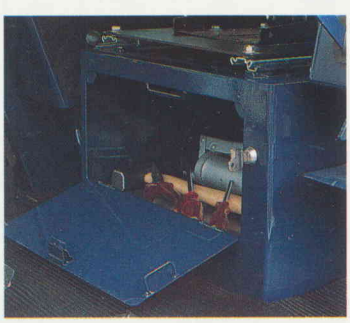


Larger floorspace and greater visibility improve operator's comfort. The human-engineered lay-out of the cabin with centrally placed controls, meters and gauges reduce operator fatigue and boost operating efficiency. The "walk-through" design enables easy entrance into the cabin. A sliding windscreen, opening right hand window and ceiling hatch provide ample ventilation within the cabin.

The servo assisted wrist-control "joy-sticks" with armrest provide exceptional working comfort and precise operation.

The adjustable seat keeps the operator fatigue-free throughout the day.

The ergonomically mounted monitoring panel controls several parameters to ensure safe machine operation. If any malfunction occurs the operator is immediately alerted. The engine is stopped by simply turning the ignition key to "off" as with any family car.



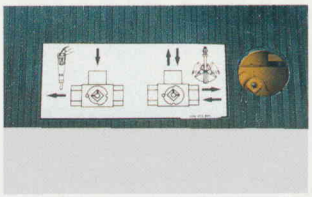
A convenient storage compartment is provided for personal items and tools.

The standard mounted cabin heater contributes to the operator's comfort even in the strongest winters.

Extra small swing radius and convenient boom offset enable fast dig and load operations in extra-tight quarters when close to obstacles.

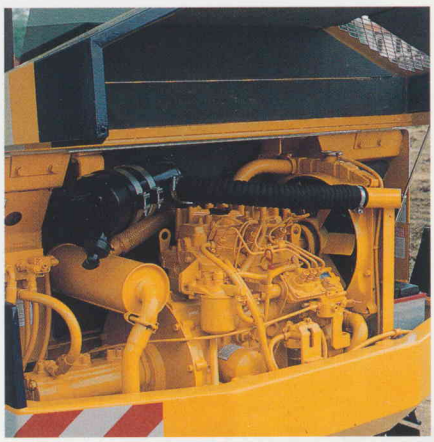
s effort

Protection kits are installed to protect the mini excavator against vandalism.



Greasing points are concentrated on the right side of the machine, for ease of maintenance. 100 hours greasing intervals greatly reduce servicing time.

A **switch** is located at the left side of the machine to divert oil from the third pump to power either an hydraulic breaker or other optional attachments.



A fully opening machine cover allows easy access to engine and hydraulic equipment for quick checks and repairs.

Side protectors placed near the engine hood prevent damage when working in narrow spaces.

The larger dozer blade with cutting edge is specially designed for fast back filling and precise levelling. The blade also provides a safe and stable platform for digging operations.

The boom swings 50° to the left and 90° to the right giving the machine a wide working range.

In-shoe type travel motors and concealed undercarriage-piping ensure safe travel over rough terrain.

The boom offset is activated by a pedal placed near the operator's right foot enabling simultaneous boomswing and cab rotation thus increasing job efficiency.

Interchangeability of steel and rubber track assemblies is possible as track rollers, sprockets and idlers are common to both types. Assemblies can be speedily changed to adapt the machine for operation in any type of ground.

SPECIFICATIONS PC10-6

ENGINE

Model ..... Perkins 103.13
Type ..... 4-cycle, water-cooled, overhead valve diesel engine
No. of cylinders 3
Bore ..... 84 mm (3.3")
Stroke ..... 80 mm (3.14")
Piston displacement ..... 1.33 ltr. (81.2 cu.in)
Flywheel horsepower
(DIN 6270 B) ..... 16.9 kW (23 PS) at 2200 RPM
(SAE J1349) ..... 16.9 kW (22.7 HP) at 2200 RPM
Governor ..... All-speed, mechanical
Lube purification ..... Full-flow filter

HYDRAULIC SYSTEM

Hydraulic pumps

Three gear pumps power the boom, arm, bucket, travel, swing, blade and boom offset circuits
Capacity (discharge flow)
at engine 2200 RPM ..... 21 ltr./min. x 2 + 15 ltr./min. x 1

Hydraulic motors

Travel ..... Two axial piston motors with brake valve
Swing ..... One orbit motor

Relief valve setting

Implement circuits ..... 17.2 MPa (175 kg/cm² - 2,489 PSI)
Travel circuit ..... 17.2 MPa (175 kg/cm² - 2,489 PSI)
Swing circuit ..... 13.2 MPa (135 kg/cm² - 1,920 PSI)

Control valves

2-spool and 6-spool type.

Hydraulic cylinders

No. of cylinders – bore x stroke:
Boom ..... 1 – 70 mm x 465 mm (2.76" x 18.3")
Arm ..... 1 – 70 mm x 475 mm (2.76" x 18.7")
Bucket ..... 1 – 60 mm x 480 mm (2.36" x 18.9")
Boom offset ..... 1 – 70 mm x 520 mm (2.76" x 20.5")
Blade ..... 1 – 70 mm x 135 mm (2.76" x 5.3")

STEERING

Steering/travelling 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 & BRAKES

Drive method

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 ..... 15.7 kN (1600 kg/3,530 lb)
Max. travel speed ..... 2.0 km/h (1.2 MPH)

Brake method

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. Pin-lock-type swing lock is provided.
Swing speed ..... 9.7 RPM

BLADE

Welded, unitized construction of blade and frame.
Blade width x height ..... 1,400 mm (4'7") x 300 mm (11.8")
Blade cutting angle ..... 70°
Max. lift above ground ..... 290 mm (11.4")
Max. drop below ground ..... 285 mm (11.2")

UNDERCARRIAGE

Box-section track frames. Lubricated rollers and idlers. Hydraulic track adjusters with shock absorbing springs. Welded track-type tractor shoes with double grousers.
Shoe width ..... 300 mm (11.8")
Grouser height ..... 16.5 mm (0.63")
Number of shoes ..... 38 each side
Number of track rollers ..... 3 each side
Ground pressure ..... 27.5 kPa (0.28 kg/cm² - 3.98 PSI)

CAB

Sound-insulated all-weather steel cab, safety glass windows, pull-up front window, lockable door, window wiper, electric horn, cab lamp, adjustable suspension seat with reclining devices, monitor system and gauges.

COOLANT & LUBRICANT CAPACITY (refilling)

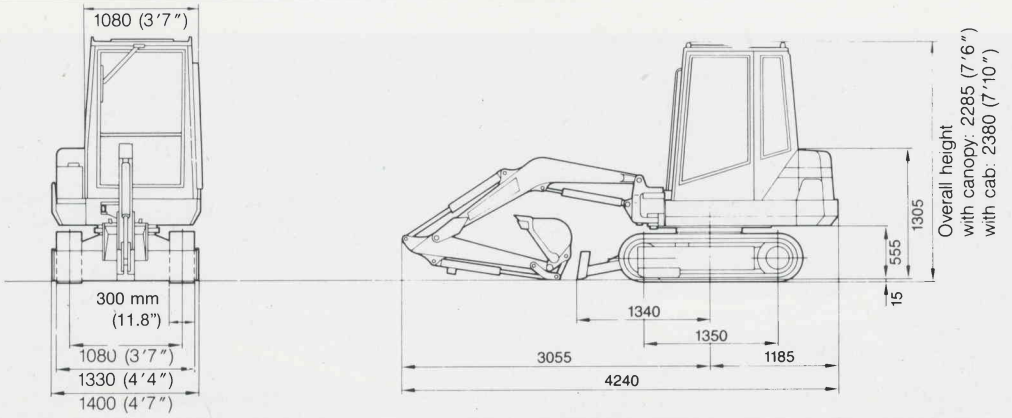
Fuel tank ..... 35.0 ltr.
Coolant ..... 4.4 ltr.
Engine without filter ..... 6.0 ltr.
Final drive, each side ..... 0.6 ltr.
Hydraulic tank ..... 29.0 ltr.

OPERATING WEIGHT (approximate)

Operating weight, including 2150 mm (7'1") one-piece boom, 1150 mm (3'9") arm, SAE heaped 0.07 m³ (0.09 cu.yd.) backhoe bucket, lubricant, coolant, full fuel tank, standard equipment, operator and cab ..... 2580 kg (5650 lb)

Type of shoes		Operating weight	Ground pressure
300 mm (11.8")	Standard shoe	2580 kg (5650 lb)	27.5 kPa (0.28 kg/cm² - 3.98 PSI)
260 mm (10.2")	Rubber shoe	2490 kg (5480 lb)	30.4 kPa (0.31 kg/cm² - 4.41 PSI)

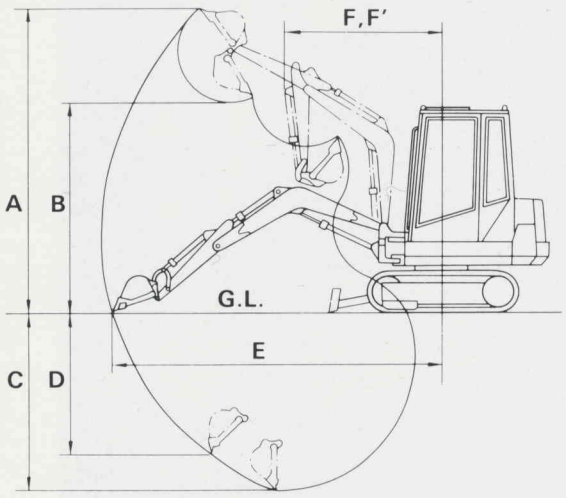
DIMENSIONS



Unit: mm (ft.in)

With 2150 mm (7'1") one-piece boom, 1150 mm (3'9") arm, SAE heaped 0.07 m³ (0.09 cu.yd) backhoe bucket

WORKING RANGE



	Arm length	with 1150 mm (3'9") arm
A	Max. digging height	3920 mm (12'10") [4470 mm (14'8")]
B	Max. dumping height	2710 mm (8'11") [3205 mm (10'6")]
C	Max. digging depth	2310 mm (7'7") [2310 mm (7'7")]
D	Max. vertical wall digging depth	1870 mm (6'2")
E	Max. digging reach at ground level	4235 mm (13'11")
F	Min. swing radius with boom swung	1320 mm (4'4") [1080 mm (3'7")]
F'	Min. swing radius without boom swung	1745 mm (5'9") [1450 mm (4'9")]
Bucket digging force		16.7 kN (1700 kg/3,750 lb)
Arm crowd force		11.0 kN (1120 kg/2,470 lb)

Boom swing: Boom can be swung 50° to left and 90° to right by boom offset cylinder independent of upper structure swinging.
Boom offset distance: Left ..... 575 mm (1'10")
Right ..... 485 mm (1'7")

Figures in [ ] are for smaller swing radius models that are optionally available on canopy-type machines.

LIFTING CAPACITY with 1150 mm (3'9") arm and 46 kg (101 lb) bucket (incl. teeth and side cutters)

Bucket capacity (SAE heaped): 0.07 m³ (0.09 cu.yd)
⇔ Rating at maximum reach

A – Reach from swing centerline
B – Bucket hook height

		With blade on ground						With blade above ground					
B \ A		⇔		3 m (9'10")		2 m (6'7")		⇔		3 m (9'10")		2 m (6'7")	
													
2 m (6'7")	kg	*510	280	*550	370			340	280	460	370		
	(lb)	(1120)	(610)	(1210)	(820)			(760)	(610)	(1010)	(820)		
1 m (3'3")	kg	*530	260	*670	340			320	260	420	340		
	(lb)	(1170)	(570)	(1480)	(760)			(700)	(570)	(920)	(760)		
0 m (0')	kg	*560	270	*710	340	*1230	590	330	270	420	340	760	590
	(lb)	(1240)	(590)	(1570)	(760)	(2710)	(1290)	(730)	(590)	(920)	(760)	(1670)	(1290)
-1 m (-3'3")	kg	660	340	*580	350	*970	650	420	340	430	350	810	650
	(lb)	(1460)	(760)	(1280)	(700)	(2140)	(1430)	(920)	(760)	(940)	(700)	(1790)	(1430)

Notes:
1. Ratings are based on DIN 15019.
2. Lifting capacities shown include a safety margin of 20 %.
3. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
4. Lifting capacities assume the machine equipped with 300 mm (11.8") shoe is standing level on a firm, uniform supporting surface.
5. The load point is an optional hook located on back of the bucket.

ATTACHMENTS

Buckets

Capacity: Heaped (struck x 2)	0.05 m³ (0.07 cu.yd)	0.07 m³ (0.09 cu.yd)	0.10 m³ (0.13 cu.yd)	0.12 m³ (0.16 cu.yd)
SAE, PCSA heaped	0.03 m³ (0.04 cu.yd)	0.05 m³ (0.07 cu.yd)	0.07 m³ (0.09 cu.yd)	0.085 m³ (0.11 cu.yd)
Struck	0.025 m³ (0.03 cu.yd)	0.035 m³ (0.046 cu.yd)	0.05 m³ (0.07 cu.yd)	0.06 m³ (0.08 cu.yd)
Bucket width: without side cutters	250 mm (9.8')	350 mm (13.8')	450 mm (17.7')	550 mm (21.7')
with side cutters	280 mm (11.0')	380 mm (15.0')	480 mm (18.9')	580 mm (22.8')
No. of bucket teeth	3	3	4	4
Bucket type	Narrow	Narrow	Standard	Light-duty

ARM:
1150 mm (3'9") arm

BOOM:
2150 mm (7'1") boom

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

KOMATSU HYDRAULIC MINI-EXCAVATOR PC10-6

Model shown may include optional equipment.

MAIN FEATURES

A FAMILIAR FEEL FOR BETTER CONTROL

- Boom cushion cylinder
- Neutral lock on operating levers
- Operator seat
- Spacious cab with large foot space
- Servo assisted wrist controls with armrest
- Wrist controls with adjustable armrests

GREATER EFFICIENCY WITH LESS EFFORT

- Concealed piping and well-formed undercarriage
- Field-proven welded assembly shoes and in-shoe travel motor
- Full-open engine cover with side protectors
- Large boom offset for easy side ditching
- Sealed implement pins
- Wide working range, small swing radius, high dumping height

STANDARD EQUIPMENT

Standard and optional equipment may vary. Consult your Komatsu dealer for more information.

- Additional control valve for attachments
- Alternator charge lamp
- Alternator 12 V/35 A
- Battery 12 V/80 Ah
- Double-grouser shoes 300 mm (11.8")
- Dozer blade with cylinder cover
- Dry-type air cleaner
- Electric horn
- Electric starting motor 12 V/2.0 KW
- Floor mat
- Front light
- Full hydrostatic drive
- Hydraulic track adjusters
- Lubricated rollers and idlers
- Service meter
- Side protectors for engine hood
- Steel cab includes: room lamp, wiper, heater, ash tray, windshield washer and lockable door
- Suspension operator's seat with seat belt
- Vandalism protection kit
- Warning lamp for engine oil pressure and temperature
- Water seperator
- Wrist controls with adjustable armrests

OPTIONAL EQUIPMENT

- Canopy
- Dust indicator
- Radio
- Rubber shoe
- Tool kit and ordinary spare parts

tachments and optional equipment Komatsu distributor for those items change without notice.

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* Operating weight, including 2150 mm (7'1") one-piece boom, 1150 mm (3'9") arm, SAE heaped 0.07 m³ (0.09 cu.yd.) backhoe bucket, lubricant, coolant, full fuel tank, standard equipment.

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