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 miniexcavator the most productive in its range.

The PC20-6 enables the operator, in total comfort, to dig more in less time and using less fuel on any job site.

PC20-6 HYDRAULIC EXCAVATOR

FLYWHEEL HORSEPOWER: 19.5 kW (26.5 PS) at 2600 RPM

BUCKET CAPACITIES: $0.03 \sim 0.12 \text{ m}^3 (0.04 \sim 0.16 \text{ cu.yd})$

OPERATING WEIGHT*: 3390 kg (7470 lb)

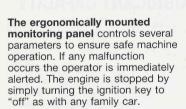


Larger floorspace and greater visibility improve operator's comfort. The human-engineered lay-out of the cabin with centrally placed controls, meters and gauges reduce operator fatigue and boost operating efficiency. The "walk-through" design enables easy entrance into the cabin. A sliding windscreen,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



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

The adjustable seat keeps the operator fatiguefree throughout the





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





Greater efficiency with less



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



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

s effort



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

Greasing points

are concentrated

ease of mainte-

nance. 100 hours

greasing intervals greatly reduce servicing time.

on the right side of the machine, for





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



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



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.

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.

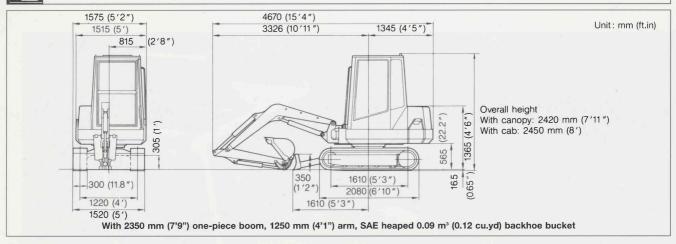
The boom swings 50° to the left and

90° to the right giving the machine a

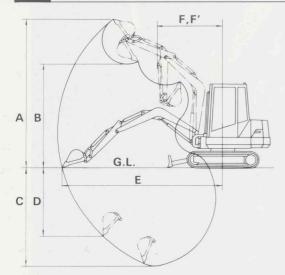
wide working range.



DIMENSIONS



WORKING RANGE



| | Arm length | with 1250 mm (4'1") arm | with 1650 mm (5'5") arm |
|-----|--------------------------------------|---------------------------------------|-------------------------------|
| Α | Max. digging height | 4245 mm (13'11") [4735 mm (15'6")] | 4365 mm (14'4") |
| В | Max. dumping height | 2960 mm (9'9") [3375 mm (11'1")] | 3155 mm (10'4") |
| С | Max. digging depth | 2800 mm (9'2") [2650 mm (8'8")] | 3160 mm (10'4") |
| D | Max. vertical wall digging depth | 1960 mm (6'5") | 2320 mm (7'7") |
| Е | Max. digging reach at ground level | 4670 mm (15'41") | 4995 (16'5") |
| F | Min. swing radius with boom swung | 1520 mm (5') [1290 mm (4'3")] | 1720 mm (5'8") |
| F' | Min. swing radius without boom swung | 1910 mm (6'3") [1595 mm (5'3")] | 2095 mm (6'10") |
| Bud | cket digging force | 20.1 kN (2050 kg/4,520 lb) | 21.0 kN (2150 kg/4,740 lb) |
| Arm | n crowd force | 12.3 kN (1250 kg/2,760 lb) | 11.1 kN (1140 kg/2,510 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 ...

Right

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



LIFTING CAPACITY with 1250 mm (4'1") arm and 52 kg (115 lb) bucket (incl. teeth and side cutters)

Bucket capacity (SAE heaped): 0.09 m³ (0.12 cu.yd) ♠ Rating at maximum reach

A – Reach from swing centerline B – Bucket hook height

| | | | | | Wit | th blade | on grou | nd | | | | | | | With | blade a | bove gr | ound | | | Ť |
|-----------------|------------|----------------|----------------|----------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|---------------|--------------|----------------|---------------|-----------------|----------------|-----------------|-----------------|
| | Α | (| 9 | 4 (13 | m '1") | 3 (9'1 | | 2 (6' | | | m 3") | (| 9 | | m '1") | 3 (9' | m 10") | 2 (6' | | 1 (3' | m 3") |
| В | | | | j | | | (<u></u> | | (<u>;</u> ;=== | | (; | | | | (| B | | | | | (<u>;</u> ;== |
| 3 m (9'10") | kg (lb) | *600 (1300) | 500 (1050) | | | *600 (1300) | *600 (1300) | | | | | 600 (1300) | 500 (1050) | | | *600 (1300) | 600 (1300) | | | | 46 |
| 2 m (6'7") | kg (lb) | *600 (1300) | 450 (950) | | | *700 (1300) | 650 (1400) | | | | | 500 (1050) | 450 (950) | | | *700 (1500) | 650 (1400) | | | | |
| 1 m (3'3") | kg (lb) | *650 (1400) | 350 (850) | *650 (1400) | 350 (850) | *900 (2000) | 600 (1300) | | | | | 450 (950) | 350 (850) | 500 (1050) | 350 (850) | 700 (1500) | 600 (1300) | | | | |
| 0 m (0') | kg (lb) | *700 (1500) | 350 (850) | | | *1000 (2200) | 550 (1150) | *1250 (2800) | 1000 (2250) | | | 500 (1050) | 350 (850) | | | 700 (1500) | 550 (1150) | *1250 (2800) | 1000 (2150) | | |
| -1 m (-3'3") | kg (lb) | *750 (1600) | 500 (1050) | | | *900 (2000) | 550 (1150) | *1550 (3500) | 1000 (2250) | *1400 (3100) | *1400 (3100) | 600 (1300) | 500 (1050) | | | 700 (1500) | 550 (1150) | 1350 (3000) | 1000 (2150) | *1400 (3100) | *1400 (3100) |
| -2 m (-6'7") | kg (lb) | *700 (1500) | *700 (1500) | | | | | *800 (1800) | *800 (1800) | | | *700 (1500) | *700 (1500) | | | | | *800 (1800) | *800 (1800) | | |

Notes:

Ratings are based on DIN 15019.

Lifting capacities include a safety margin of 20 %.
Capacities marked with an asterisk (*) are limited by hydraulic capacities.

- Lifting capacities assume the machine equipped with 300 mm (11.8") shoe is standing level on a firm, uniform supporting surface.
 The load point is an optional hook located on back of the bucket.



ATTACHMENTS

| Capacity: Heaped (struck x 2) SAE, PCSA heaped Struck | 0.05 m³ (0.07 cu.yd) 0.03 m³ (0.04 cu.yd) 0.025 m³ (0.03 cu.yd) | 0.07 m³ (0.09 cu.yd) 0.05 m³ (0.07 cu.yd) 0.037 m³ (0.05 cu.yd) | 0.12 m³ (0.13 cu.yd) 0.09 m³ (0.12 cu.yd) 0.06 m³ (0.08 cu.yd) | 0.13 m³ (0.17 cu.yd) 0.10 m³ (0.13 cu.yd) 0.07 m³ (0.09 cu.yd) | 0.16 m³ (0.21 cu.yd) 0.12 m³ (0.16 cu.yd) 0.08 m³ (0.10 cu.yd) |
|---|---|---|--|--|--|
| Bucket width: without side cutters with side cutters | 250 mm (9.8') 270 mm (11.0') | 350 mm (13.8') 370 mm (14.6') | 450 mm (17.7') 480 mm (18.9') | 600 mm (23.6') 620 mm (23.6') | 650 mm (25.6') 680 mm (26.8') |
| No. of bucket teeth | 3 | 3 | 4 | 5 | 5 |
| Bucket type | Nar | row | Standard | Light | -duty |

ARM:

1250 mm (4'1") arm 1650 mm (5'5") arm

воом:

2350 mm (7'9") boom Other track shoes: Choose the rubber shoes when the machine works on paved areas.

710 mm (2'4") 455 mm (1'6")

SPECIFICATIONS PC20-6



ENGINE

| Model | Komatsu 3D84-2F |
|------------------------|-----------------------------------|
| Type4-cycle, water-coo | led, overhead valve diesel engine |
| No. of cylinders | 3 |
| Bore | |
| Stroke | 86 mm (3.34") |
| Piston displacement | 1.429 ltr. (87.2 cu.in) |
| Flywheel horsepower | |
| (DIN 6270 B) | 19.5 kW (26.5 PS) at 2600 RPM |
| (SAE J1349) | 19.5 kW (26.1 HP) at 2600 RPM |
| Direct injection. | |
| 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 2600 RPM 26.8 ltr./min. x 2 + 20.4 ltr./min. x 1

Hydraulic motors

| Travel | Two axial piston motors wi | th brake valve |
|--------|----------------------------|----------------|
| Swing | One axial piston motor wi | th brake valve |

Relief valve setting

| Implement circuits | 20.6 | MPa | (210) | kg/cm ² | - | 2,986 PSI) | |
|--------------------|------|-----|-------|--------------------|---|------------|--|
| Travel circuit | 20.6 | MPa | (210) | kg/cm ² | - | 2,986 PSI) | |
| Swing circuit | 14.7 | MPa | (150) | kg/cm ² | - | 2,133 PSI) | |

Control valves

6-spool, 2-spool control valve (4 elements servo-assisted).

Hydraulic cylinders

| No. of cylinders – bore x | stro | ke: | | | | | | | |
|---------------------------|------|-----|----|---|-----|----|--------|---|--------|
| Boom | 1 - | 80 | mm | Х | 545 | mm | (3.1") | Х | 21.5") |
| Arm | 1 - | 75 | mm | Х | 440 | mm | (3.0") | Х | 17.3") |
| Bucket | 1 - | 65 | mm | Х | 410 | mm | (2.6") | Х | 16.1") |
| Boom offset | 1 - | 85 | mm | Х | 585 | mm | (3.3") | Х | 23.0") |
| Blade | 1 - | 90 | mm | Х | 120 | mm | (3.5") | Х | 4.7") |



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).

21.2 kN (2160 kg/4,760 lb) Max. drawbar pull . Max. travel speed 2.4 km/h (1.5 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. 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. 11.5 RPM



Swing speed

BLADE

Welded, unitized construction of blade and frame. Blade width x height 1520 mm (5') x 350 mm (1'2") Blade cutting angle 350 mm (1'2") Max. lift above ground 390 mm (1'3") Max. drop below ground



UNDERCARRIAGE

Box-section track frames. Sealed track. Lubricated rollers and idlers. Hydraulic track adjusters with shock absorbing springs.

| es with double grousers. |
|---|
| 300 mm (11.8") |
| 16.5 mm (0.65") |
| 43 each side |
| 4 each side |
| 30.4 kPa (0.31 kg/cm ² - 4.41 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 | 55 | ltr. |
|------------------------|-----|------|
| Radiator | 5 | ltr. |
| Engine | 7.3 | ltr. |
| Final drive, each side | 1.2 | ltr. |
| Hydraulic tank | 35 | ltr. |



OPERATING WEIGHT (approximate)

Operating weight, including 2350 mm (7'9") one-piece boom, 1250 mm (4'1") arm, SAE heaped 0.09 m³ (0.12 cu.yd.) backhoe bucket, lubricant, coolant, full fuel tank, standard equipment, 3390 kg (7.470 lb) operator and cab

| Type of shoes | Operating weight | Ground pressure | | | | |
|------------------------------|----------------------|--|--|--|--|--|
| 300 mm (11.8") Standard shoe | 3390 kg (7470 lb) | 30.4 kPa (0.31 kg/cm ² - 4.41 PSI) | | | | |
| 300 mm (11.8") Rubber shoe | 3330 kg (7330 lb) | 30.4 kPa (0.31 kg/cm² - 4.41 PSI) | | | | |

KOMATSU HYDRAULIC MINI-EXCAVATOR PC20-6



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 wristcontrols 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.

- Alternator charge lamp
- Alternator 12 V/40 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/1.8 kW
- Floor mat
- Front light
- Fuel level gaugeFull hydrostatic drive
- 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
- Tool kit and ordinary spare parts
- Vandalism protection kit
- Warning lamp for engine oil pressure and temperature
- Water seperator
- Wrist controls with adjustable armrests

OPTIONAL EQUIPMENT

- Dust indicator
- Hydraulic control unit for hydraulic breaker
- Plastic canopy
- Radio
- ROPS canopy

- ROPS cab
- Rubber shoe
- Seat belt

Printed in Belgium – 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 EUROPE** N.V./S.A.

Mechelsesteenweg 586 - B 1800 VILVOORDE (BELGIUM)
Tel. (+32)2/254 04 11 Fax (+32)2/252 19 81 Telex 24.380 Eukom b
Cable: KOMASEI, Bru B

Operating weight, including 2350 mm (7"9") one-piece boom, 1250 mm (4'1") arm, SAE heaped 0.09 m" ik, standard equipment.



Nordisk Entreprenør-Materiel a/s Industrisvinget 2 6600 Vejen Tlf.: 75 36 22 33

Printing
Services
Centre