



Model shown may include optional equipment.

PC20-6

HYDRAULIC EXCAVATOR

**KOMATSU:
The Quality
is Standard.**

**Bucket capacity
(SAE heaped):
0.03 ~ 0.12 m³
(0.04 ~ 0.16 cu.yd)**

Greater efficiency with less effort

Features

- Large boom offset for easy side ditching.
- Wide working range, small swing radius and the highest max. dump in its class make work easy in confined areas.
- More foot room, excellent visibility, convenient controls, reduced noise and operator seat with arm rest provide greater comfort.
- Smooth swing control and reduced shock with boom cushion cylinder.
- Neutral lock on operating levers and foot guard for safety.
- Full-open machine cover and simplified air bleeding for easy maintenance.
- While engine hood protectors increase safety in confined areas, the concealed piping and well-formed undercarriage ensure safe travel over rugged terrain.
- Sealed implement pins extend greasing interval.
- Field-proven welded assembly shoes and in-shoe travel motor increase reliability.

SPECIFICATIONS



ENGINE

Komatsu 3D84 4-cycle, water-cooled, overhead valve diesel engine. 3 cylinders, 84 mm (3.30") bore × 85 mm (3.34") stroke and 1.413 ltr. (86.2 cu.in) piston displacement.

Flywheel horsepower.

25.6 HP (19.1 kW) at 2600 RPM (SAE J1349)

26 PS (19.1 kW) at 2600 RPM (DIN 6270 NET)

Swirl combustion chamber system. All-speed mechanical governor. Full-flow filter for lube purification.



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. (7.1 U.S. gal)/min. × 2 + 20.4 ltr. (5.4 U.S. gal)/min. × 1

Hydraulic motors

Travel Two axial piston motors with brake valve

Swing One axial piston motor with brake valve.

Relief valve setting

Implement circuits 210 kg/cm² (2,986 PSI/20.6 MPa)

Travel circuits 210 kg/cm² (2,986 PSI/20.6 MPa)

Swing circuits 150 kg/cm² (2,133 PSI/14.7 MPa)

Control valves

2-spool control valve × 2, 4-spool control valve × 1

Hydraulic cylinders

Cylinder	Numbers	Bore × Stroke
Boom	1	80 mm × 545 mm (3.1" × 21.5")
Arm	1	75 mm × 440 mm (3.0" × 17.3")
Bucket	1	65 mm × 410 mm (2.6" × 16.1")
Boom offset	1	85 mm × 585 mm (3.3" × 23.0")
Blade	1	90 mm × 120 mm (3.5" × 4.7")



STEERING

Steering/traveling controls are activated with two-hand levers.



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 2160 kg (4,760 lb/21.2 kN)

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. Swing speed 10 RPM



BLADE

Welded, unitized construction of blade and frame.

Blade width × height 1520 mm (5') × 350 mm (1'2")

Max. lift above ground 350 mm (1'2")

Max. drop below ground 390 mm (1'3")



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 grouser.

Shoe width 300 mm (11.8")

Grouser height 16.5 mm (0.65")

Number of shoes 43 each side

Number of track rollers 4 each side

Ground pressure 0.27 kg/cm² (3.84 PSI/26.5 kPa)



COOLANT & LUBRICANT CAPACITY (refilling)

	Liter	U.S. gallon
Fuel tank	50	13.2
Radiator	5	1.3
Engine	4.2	1.1
Final drive, each side	0.75	0.2
Hydraulic tank	48	12.7



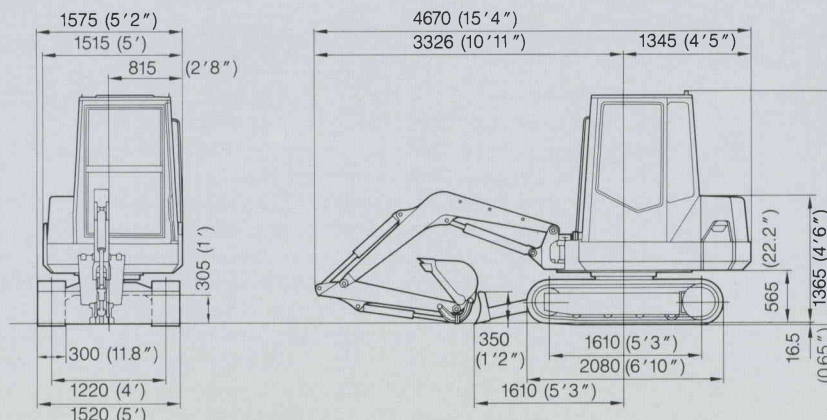
OPERATING WEIGHT (approximate)

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, operator and cab (optional) 2930 kg (6,450 lb)



DIMENSIONS

Unit: mm (ft.in)

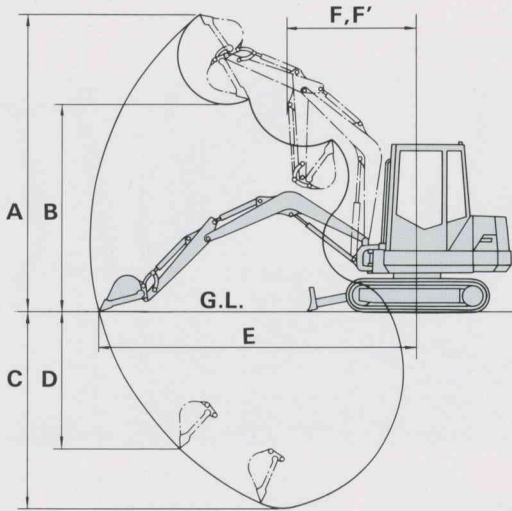


Overall height
With canopy: 2420 mm (7'11")
With cab: 2450 mm (8')

With 2350 mm (7'9") one-piece boom, 1250 mm (4'1") arm, SAE heaped 0.09 m³ (0.12 cu.yd) backhoe bucket.



WORKING RANGE



Arm length		with 1250 mm (4'1") arm	with 1650 mm (5'5") arm
A	Max. digging height	4245 mm (13'11") [4735 mm (15'6")]	4365 mm (14'4")
B	Max. dumping height	2960 mm (9'9") [3375 mm (11'1")]	3155 mm (10'4")
C	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")
E	Max. digging reach at ground level	4670 mm (15'4")	4995 mm (16'5")
F	Mix. swing radius with boom swung	1520 mm (5') [1290 mm (4'3")]	1720 mm (5'8")
F'	Mix. swing radius without boom swung	1910 mm (6'3") [1595 mm (5'3")]	2095 mm (6'10")
Bucket digging force		2050 kg (4,520 lb/20.1 kN)	2150 kg (4740 lb/21.0 kN)
Arm crowd force		1250 kg (2,760 lb/12.3 kN)	1140 kg (2,510 lb/11.1 kN)

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

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

STANDARD EQUIPMENT

12 V/2.5 kW electric starting motor. 12 V/35 A alternator. Dry-type air cleaner. Electric horn. Adjustable operator's seat with arm rest. 300 mm (11.8") double-grouser shoes. Hydraulic track adjusters. Full hydrostatic drive. 12 V/70 Ah battery. Front light. Floor mat.

Alternator charge lamp. Warning lamp for engine oil pressure and temperature. Service meter. Lubricated rollers and idlers. Fuel level gauge. Dozer blade with cylinder cover. Hydraulic track adjusters. Water separator. Side protector for engine hood.

ATTACHMENTS

BUCKETS:

Capacity: m ³ (cu.yd)	0.05 (0.07)	0.07 (0.09)	0.12 (0.13)	0.13 (0.17)	0.16 (0.21)
Heaped (struck x 2)	0.028 (0.04)	0.043 (0.06)	0.07 (0.09)	0.08 (0.10)	0.10 (0.13)
JIS, CECE heaped	0.03 (0.04)	0.05 (0.07)	0.09 (0.12)	0.10 (0.13)	0.12 (0.16)
SAE, PCSA heaped	0.025 (0.03)	0.037 (0.05)	0.06 (0.08)	0.07 (0.09)	0.08 (0.10)
Struck					
Bucket width: mm (in)	250 (9.8)	350 (13.8)	450 (17.7)	600 (23.6)	650 (25.6)
without side cutters	270 (11.0)	370 (14.6)	480 (18.9)	620 (23.6)	680 (26.8)
with side cutters					
No. of bucket teeth	3	3	4	5	5
Bucket type	Narrow		Standard	Light-duty	

ARM: 1250 mm (4'1") arm, 1650 mm (5'5") arm

BOOM: 2350 mm (7'9") boom

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

Type of shoes		Ground pressure kg/cm ² (PSI/kPa)
250 mm (9.8")	Flat shoe	0.32 (4.55/31.4)
400 mm (15.7")	Double grouser shoe	0.21 (2.99/20.6)
400 mm (15.7")	Swamp shoe	0.21 (2.99/20.6)
300 mm (11.8")	Rubber shoe	0.27 (3.84/26.5)

OPTIONAL EQUIPMENT

Plastic canopy. Steel cab includes room lamp, wiper, heater and ash tray. Windshield washer. Radio. Suspension seat. Seat belt. Dust indicator. Lockable door for cab. ROPS canopy. ROPS cab.

Hydraulic control unit for hydraulic breaker. Tool kit and ordinary spare parts.



LIFTING CAPACITY

Arm length: 1250 mm (4'1") Bucket capacity (SAE heaped): 0.09 m³ (0.12 cu.yd)

A—Reach from swing centerline

B—Bucket hook height ●—Rating at maximum reach

		With blade on ground								With blade above ground							
		●		4.0 m (13')		3.0 m (10')		2.0 m (7')		●		4.0 m (13')		3.0 m (10')		2.0 m (7')	
A	B	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
3.0 m	10'	*600	1300	400	900	*600	1300	550	1200	500	1200	400	900	*600	1300	550	1200
2.0 m	7'	*600	1300	350	700	*700	1600	550	1200	400	900	350	700	650	1400	550	1200
1.0 m	3'	*650	1400	300	700	*650	1400	300	700	*900	2000	500	1100	350	800	300	700
0.0 m	0'	*700	1500	300	700	*1000	2300	450	1000	*1250	2800	900	2000	400	900	300	700
-1.0 m	-3'	*750	1600	400	900	*900	2000	450	1000	*1550	3500	900	2000	500	1100	400	900
-2.0 m	-7'	*700	1600	*700	1600			*800	1800	*800	1800	*700	1600	*700	1600	*800	1800

Notes: 1. Ratings are based on SAE Standard NO. J1097

2. Lifting capacities shown do not exceed 75% of tipping load or 87% of hydraulic capacities.

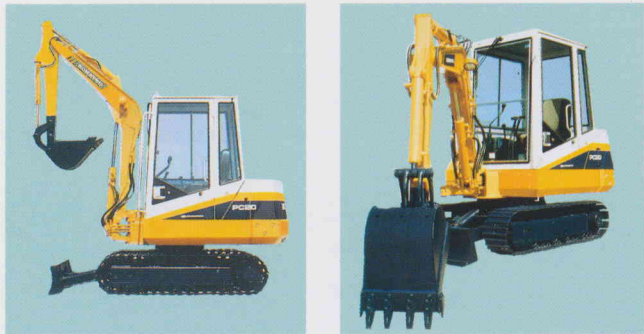
3. Capacities marked with asterisk (*) are limited by hydraulic capacities.

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 the back of the bucket.

A Familiar Feel and Better Control

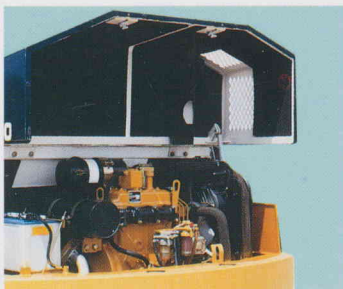
Excellent performance to tackle any job



Extra-small min. swing radius and convenient boom offset enable quick dig/load operations in extra tight quarters when close to obstacles. The boom swings 50° to the left and 90° to the right. In addition, the PC20-6 attains a wide working range. Reinforced dozer blade with cutting edge is ideal for refilling and leveling.

Smaller swing radius option is available on canopy-type machine.

Built tough, easy to maintain



Full-open machine cover allows quick access to engine components and hydraulic equipment for quick checks and repairs. And easy air bleeding with one touch of a button.

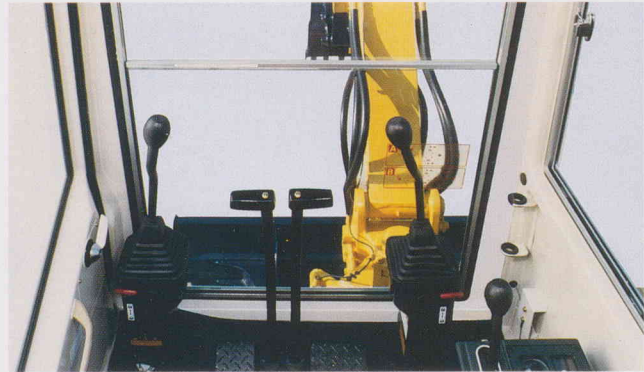


Convenient storage compartment for personal items and tools.



Optional removable rubber shoes for the PC20-6 eliminate the need to change track rollers or parts when mounting.

Easy operation



Equipped with a simple engine key stop, just like the family car.

Larger floorspace and greater visibility improve operating comfort. The human-engineered layout of controls, meters and gauges reduces operator fatigue and boosts operating efficiency. Komatsu's reduced noise 3D84 diesel engine.

Operator's seat with arm rest provides working comfort.

Unique Komatsu design eliminates worries



Fuel tank equipped with key to prevent vandalism.



Foot guard protects operator's feet from rocks for canopy-type machine.



Side protectors guard the PC20-6 in narrow places.



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

Brakes lock on when travel/steering levers are in neutral.

O-rings on the bucket connector pin keep dirt out to prevent wear.

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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