KOMATSU®

PC2000-11

Tier 4 Final Engine

PC2000

HYDRAULIC EXCAVATOR

Photos may include optional equipment.

HORSEPOWER
Gross: **1065 HP** 794 kW @ 1800 rpm
Net: **1046 HP** 780 kW @ 1800 rpm

OPERATING WEIGHT
445,179 – 456,926 lb
201930 – 207258 kg

STANDARD BUCKET CAPACITY
15.7–17.9 yd³
12.0–13.7 m³

WALK-AROUND

MORE PRODUCTIVE AND EFFICIENT

The PC2000-11 can load more trucks per shift. Increased engine power and new engine-pump control logic allow for *faster cycle times* and *improved multifunction performance*.

Photos may include optional equipment.

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Productivity, Efficiency, and Multifunction Performance

- Faster cycle times and improved multifunction performance NEW
- Tier 4 Final emission-compliant engine with 1,046 net horsepower NEW
- Four selectable working modes to tailor machine performance to operating conditions NEW
- Power Plus (P+) mode increases productivity up to 12% NEW
- Redesigned hydraulic system monitors work equipment loads and optimizes hydraulic flow, based on operating conditions NEW
- Swing priority valve makes sure swing speed is available when needed UPGRADE
- Auto deceleration, auto-low idle, and auto idle shutdown

Reliability and Durability

- Thicker, stronger boom plates and castings, highly resistant to bending and torsional stresses UPGRADE
- Strengthened center and track frame UPGRADE
- Larger diameter carrier rollers for extended service life UPGRADE
- New sealing package on work equipment cylinders to withstand the most abrasive applications UPGRADE
- Power module makes installation and removal of components easier, and reduces overhaul hours and cost.

Access and Operator Comfort

- Operator's cab OPG level 2 (ISO 10262)
- Hydraulically operated stairway with 45° access NEW
- Secondary engine stop switches located at ground level, along walkway, and in cabin
- Fuel shut off valves located at ground level and along walkway
- Air-suspension seat, heated, with console-mounted arm rests NEW
- Two automatic, large capacity air conditioning units
- Extremely quiet, air pressurized cab, with a dynamic noise of 64.1 dB(A) UPGRADE

Information, Communication, and Technology

- 7-inch, advanced, machine monitoring system with onboard diagnostics, no laptop required
- KomVision, bird's-eye view, 7-camera system with dedicated 10-inch display NEW
- Operator ID records KOMTRAX machine operation and application data
- KOMTRAX Plus, for immediate diagnostics of machine health and performance NEW
- Wireless LAN communication, for near real-time transmission of machine data
- Fleet Management via KOMTRAX Plus and/or available integration with 3rd party telematics systems UPGRADE

*All comparisons are to prior model in power mode, unless otherwise stated.

SPECIFICATIONS

PC2000-11

ENGINE

Model ..... Komatsu SAA12V140E-7*
Type ..... Water-cooled, 4-cycle, direct injection
Aspiration ..... Turbocharged, aftercooled, cooled, EGR
Number of cylinders 12
Bore ..... 140 mm **5.51"**
Stroke ..... 165 mm **6.50"**
Piston displacement ..... 30.48 ltr **1860 in³**
Governor ..... All-speed, electronic
Horsepower:
SAE J1995 ..... Gross 794 kW **1065 HP**
ISO 9249 / SAE J1349 ..... Net 780 kW **1046 HP**
Rated rpm 1800
Fan drive method for radiator cooling ..... Hydraulic

*EPA Tier 4 Final emissions certified

HYDRAULICS

Type ..... Open-center load sensing system, 3 selectable working modes
Main pump:
Type ..... Variable capacity piston pumps
Pumps for ..... Boom, arm, bucket, swing, and travel circuits
Maximum flow for attachment, swing and travel .... 2317 ltr/min **612 gal/min**
Maximum flow for fan drive ..... 324 ltr/min **85.6 gal/min**
Hydraulic motors:
Travel ..... 2 x axial piston motors with parking brake
Swing ..... 2 x axial piston motors with swing holding brake
Relief valve setting:
Attachment circuits
Backhoe ..... 29.4 MPa 300 kgf/cm² **4,270 psi**
Travel circuit ..... 32.9 MPa 335 kgf/cm² **4,760 psi**
Swing circuit ..... 29.4 MPa 300 kgf/cm² **4,270 psi**
Pilot circuit ..... 3.2 MPa 33 kgf/cm² **464 psi**
Hydraulic cylinders:
(Number of cylinders – bore x stroke)
Backhoe
Boom ..... 2–300 mm x 2647 mm **11.8" x 104.2"**
Arm ..... 2–250 mm x 2134 mm **9.8" x 84.2"**
Bucket ..... 2–200 mm x 2170 mm **7.9" x 85.4"**

DRIVE SYSTEM

Travel gear ..... Two levers with pedals
Gradeability ..... 70%, 35°
Maximum travel speed ..... 2.7 km/h **1.7 mph**
Parking brakes ..... Oil disc brakes

SWING SYSTEM

Swing gear ..... 2 x Planetary gear
Swing circle lubrication ..... Grease-bathed
Swing holding brakes ..... Oil disc brakes
Swing speed ..... 4.8 rpm

UNDERCARRIAGE

Track adjuster ..... Grease
Number of shoes (each side) 49
Number of carrier rollers (each side) 3
Number of track rollers (each side) 8

COOLANT & LUBRICANT CAPACITY (REFILLING)

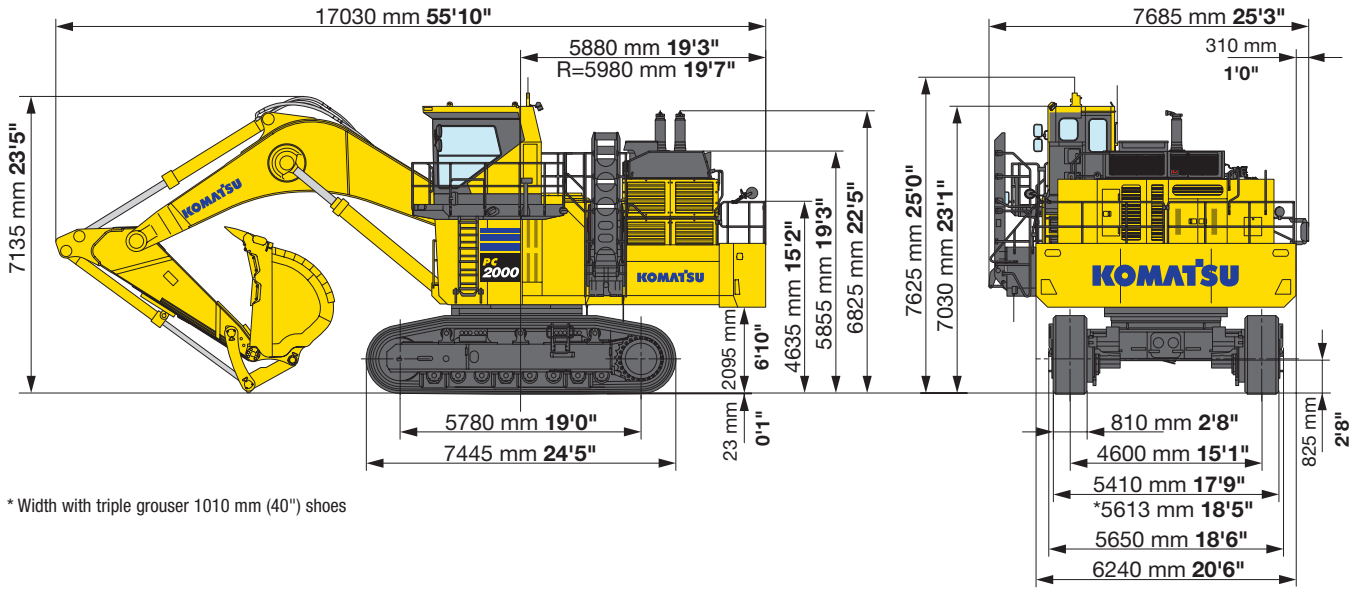
Fuel tank ..... 3400 ltr **898.2 U.S. gal**
Radiator ..... 240 ltr **63.4 U.S. gal**
Engine ..... 128 ltr **33.8 U.S. gal**
Travel gear, each side ..... 85 ltr **22.5 U.S. gal**
Swing drives ..... 2 x 30 ltr **2 x 7.9 U.S. gal**
Hydraulic tank ..... 1300 ltr **343.4 U.S. gal**
Power Take Off (PTO) ..... 40 ltr **10.6 U.S. gal**

OPERATING WEIGHT (APPROXIMATE)

Backhoe:
Operating weight, including 8700 mm **28'7"** boom, 3900 mm **12'10"** arm, SAE J 296 heaped 12.0 m³ **15.7 yd³** general purpose backhoe bucket lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	PC2000-11	
	Operating Weight	Ground Pressure (ISO 16754)
Double grouser	201930 kg	192.1 kPa 1.96 kg/cm²
810 mm **32"**	**445,054 lb**	**27.9 psi**
Triple grouser	206050 kg	157.2 kPa 1.60 kg/cm²
1010 mm **40"**	**454,134 lb**	**22.8 psi**

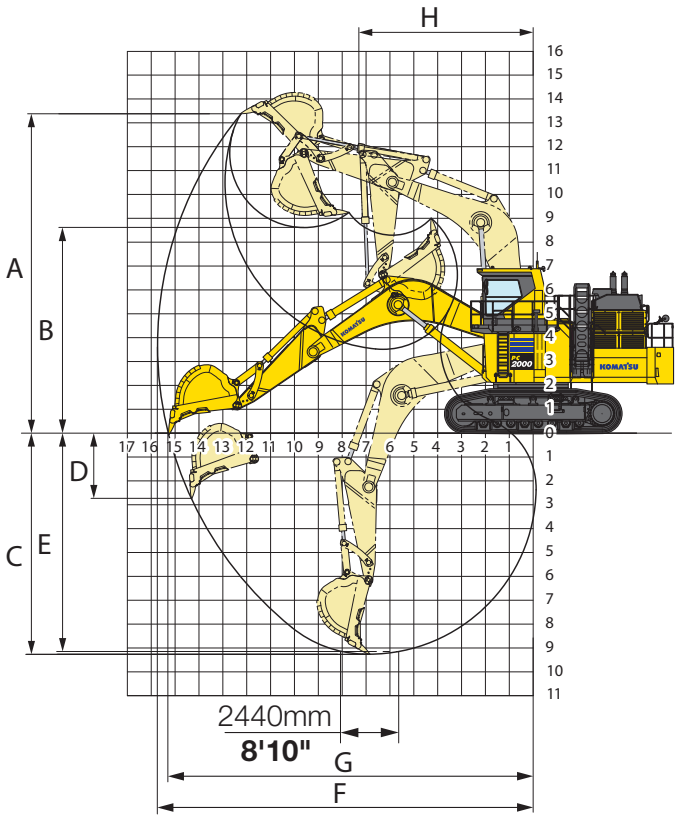
DIMENSIONS



* Width with triple grouser 1010 mm (40") shoes

WORKING RANGE

		Boom Length	8.7 m	28'7"
		Arm Length	3.9 m	12'10"
A		Max. digging height	13410 mm	44'0"
B		Max. dumping height	8650 mm	28'5"
C		Max. digging depth	9235 mm	30'4"
D		Max. vertical wall digging depth	2710 mm	8'11"
E		Max. digging depth for 8'level bottom	9115 mm	29'11"
F		Max. digging reach	15780 mm	51'9"
G		Max. digging reach at ground level	15305 mm	50'3"
H		Min. swing radius	7500 mm	24'7"
SAE rating		Bucket digging force at power max.	626 kN 63800 kg / **70.3 U.S ton**	
		Arm crowd force at power max.	586 kN 59700 kg / **65.9 U.S ton**	
ISO rating		Bucket digging force at power max.	697 kN 71100 kg / **78.4 U.S ton**	
		Arm crowd force at power max.	598 kN 61000 kg / **67.2 U.S ton**	



BACKHOE BUCKET REFERENCE CHART

	General Purpose Bucket		Standard Rock Bucket		Heavy Rock Bucket		Iron Ore Bucket	
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
Heaped Capacity ISO 7451 (@ 1:1)	17.9 yd^3	13.7 m^3	15.7 yd^3	12 m^3	14.9 yd^3	11.4 m^3	12.0 yd^3	9.1 m^3
Bucket Payload	24.6 tons	22.3 tonnes	23.6 tons	21.4 tonnes	24.3 tons	22.0 tonnes	26 tons	23.6 tonnes
Bucket Weight	26,750 lbs	12134 kg	28,800 lbs	13063 kg	27,500 lbs	12474 kg	24,000 lbs	10886 kg
Material Density (loose)	2,750 lbs/yd^3	1.63 tonnes/m^3	3,000 lbs/yd^3	1.78 tonnes/m^3	3,250 lbs/yd^3	1.93 tonnes/m^3	4,350 lbs/yd^3	2.58 tonnes/m^3
Bucket Width Outer, without side shrouds	107 in	2720 mm	102 in	2600 mm	102 in	2600 mm	102 in	2600 mm

Note: The above chart is a guideline for bucket selection and may not represent all applications. Bucket sizes, weights, and widths will vary depending on material, fragmentation, or other digging conditions.

STANDARD EQUIPMENT

ENGINE AND RELATED ITEMS:
- Air cleaner, double element dry
- Automatic engine warm-up system
- Electric priming pump for fuel
- Engine, Komatsu SAA12V140E-7 turbocharged, U.S. EPA Tier 4 Final certified.
- Fuel pre-filters with water separators
- Two cooling fans with fan guard (Hydraulic drive, for radiator and oil cooler), reversible

ELECTRICAL SYSTEM:
- Alternators, 24 V/2 x 90 A
- Auto decelerator and auto idling system
- Auto idle shutdown (adjustable)
- Batteries, 4 x 12 V/140 Ah
- Battery isolator and starting motor isolator
- Circuit breakers
- Electrical engine oil pan heater and coolant heater
- Horn interconnected with warning light
- Ladder operating alarm
- Lever lock auto-lock
- Lighting switches instrument panel
- Radio w/ auxiliary input (3.5 mm jack)
- Rear working light
- Secondary engine stop switch (ground access)
- Starting motors, 2 x 11 kW
- Working lights, 4 boom, 4 cab base, 3 fuel tank top front, 1 left front and 1 left under cab side catwalk, LED lamp system (2 lamps)

GUARDS AND COVERS:
- Dust resistant net for radiator and oil cooler
- Pump/engine room partition cover
- Power module under cover
- Travel motor guard

DRIVE SYSTEM:
- Planetary travel gear with axial piston motor
- Travel parking brake

HYDRAULIC SYSTEM:
- 4 variable displacement piston pumps (2 tandem pumps) for work equipment, travel and swing, 2 variable displacement piston pumps (1 tandem pump) for fan drive
- Control levers for work equipment and swing with PPC system
- Control levers and pedals for travel with PPC system
- Drain-filters for pumps & motors
- Electric open-center load sensing system
- Four control valves (two integrated valves) for work equipment, swing and travel
- Heavy lift mode
- High-pressure in-line oil filters
- Oil cooler
- One axial piston motor per track for travel with counterbalance valve
- Optimized electrical valve control for smooth and efficient compound movement
- Shockless boom control
- Two axial piston motors for swing with single stage relief valve
- Two-mode pressure setting for boom

OPERATOR'S CAB:
- Automatic air conditioners (Twin)
- Built-in top guard conforming to OPG level 2 (ISO10262)
- KomVision, all round monitoring system
- Large damper mounted and pressurized mining shovel cab with large windshield, lockable door, large twin wipers and washers, floor mats, cigarette lighter, ashtray, 12V power supply x 2, and cup holders
- Large high resolution LCD color monitor
- Lock lever
- Rearview monitoring system
- Seat belt indicator
- Seat belt, 78 mm **3"**
- Seat, heated, high back, fully adjustable air suspension with retractable seat belt
- Sun shield
- Trainer's seat

OTHER:
- Automatic swing holding brake
- Beacon, 2 (Cab top, engine hood)
- Dual rearview mirrors
- Emergency engine stop switch and fuel cut-off lever
- Fuel tank, 3400 L **898.2 U.S. Gal**
- Fully-automatic greasing system with 200 L **52.8 U.S. Gal**
- Fully hydraulic operated stairway and full 45° access to cab
- General tool kit
- Jump start receptacle
- KOMTRAX Plus (vehicle health monitoring system)
- Light in machine cab
- Maintenance light
- Manual grease gun for track adjuster
- PM tune-up service connection
- Rear reflectors
- Satellite communication system for KOMTRAX Plus (Iridium)
- Service center system, full quick charge system (grease, oils, fuel, coolant)
- Slip-resistant plates
- Step light with timer
- Travel alarm
- Wide catwalk and large handrail

UNDERCARRIAGE:
- 810 mm **32"** double grouser shoes
- 8 track rollers/3 carrier rollers (Each side)
- Hydraulic Idler Cushion (HIC) with shock absorbing accumulator
- Track guiding guard (Separate type)

OPTIONAL EQUIPMENT

- 1010 mm **40"** triple grouser shoes
- 3900 mm **12'10"** backhoe arm assembly
- 8700 mm **28'7"** backhoe boom assembly
- Coolant heater, fuel combustion type
- Full length track guiding guards
- Heavy-duty rock bucket

AESS933-00

AD01(Electronic View Only) 01/19 (EV-1)

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Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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