

# KOMATSU®

## PC2000-8 BACKHOE PC2000-8 LOADING SHOVEL

### HORSEPOWER

Gross: 728 kW 976 HP @ 1800 rpm

Net: 713 kW 956 HP @ 1800 rpm

### OPERATING WEIGHT

Backhoe: 200000–204120 kg

440,920–450,000 lb

Loading shovel: 195000 kg

429,900 lb

**PC**  
**2000**

HYDRAULIC EXCAVATOR



Photo may include optional equipment

# WALK-AROUND

## *Productivity and Economy*

- ***Fuel Efficient Machine Achieved by Total Power Management and Advanced Hydraulic System***
  - Hydraulic power loss reduced with advanced hydraulic system
  - On-demand fan speed and engine output control system
  - Equipped with electronically controlled variable speed fans
- ***Powerful and Economical Engine***  
***Komatsu SAA12V140E-3 Engine with an Output of 713 kW (956 HP)***  
***Controlled by Efficient Power Management System***
  - Auto deceleration and auto idling system
  - Two work modes; Power and Economy

## *Ecology*

- ***EPA Tier 2 Emission Certified Komatsu Engine***
- ***New Technology Produces Remarkably Low Environmental Noise***  
***Dynamic noise of 64.5 dB(A)***
  - Power module packaging and noise absorbing blades trap noise inside
  - Contoured hybrid fan minimizes air turbulence noise



## Operator Comfort

- **Newly Designed Mining Shovel Cab Provides Comfortable Operation**
  - Excellent operational visibility with extended front wind shield and large twin wipers
  - Extremely low noise and vibration  
Dynamic in-cab noise reduced to the same level as passenger cars
  - Rugged OPG top guard integrated into the cab
  - Easy-to-see and easy-to-use 7-inch TFT-LCD large monitor
  - Comfortable air-suspension seat
  - Automatic air conditioner
  - Highly pressurized cab
- **Bulkhead between Pump Room and Engine**
- **Engine Stop Devices**
- **Interconnected Horn and Flashing Light**



Photo may include optional equipment.

## HORSEPOWER

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**440,920 – 450,000 lb**

### Loading shovel

195000 kg

**429,900 lb**

## Easy Repair and Maintenance

**Low R&M Cost Sustained by Simplified and Reliable System with Long Service Life**

- **Simplified and Durable Structure**
  - Single engine and PTO drive two Komatsu HPV375+375 pumps
  - Simplified travel unit with single motor (each side)
  - Reinforced track components
  - Long life oil and filters
  - Extended life of rubber components achieved by lowering hydraulic oil temperature
- **Power Module Makes Installation and Removal of Components Easier, and Reduces Overhaul Hours and Cost**
- **Service Friendly Design**
  - Maintenance deck surrounding the power module
  - Drain ports accessible from ground level
  - Concentration of filters
  - Large fuel tank enables 24 hours continuous machine operation
  - Auto-greasing system, including bucket pins, with 200 liter **52.8 U.S. gal** grease tank
- **VHMS Monitors the Machine Condition and Minimizes Machine Down Time**

# PRODUCTIVITY, ECONOMY, ECOLOGY

*In complete pursuit of total cost reduction and eco-friendliness  
Evolutionary Komatsu technologies*

## Komatsu Technology

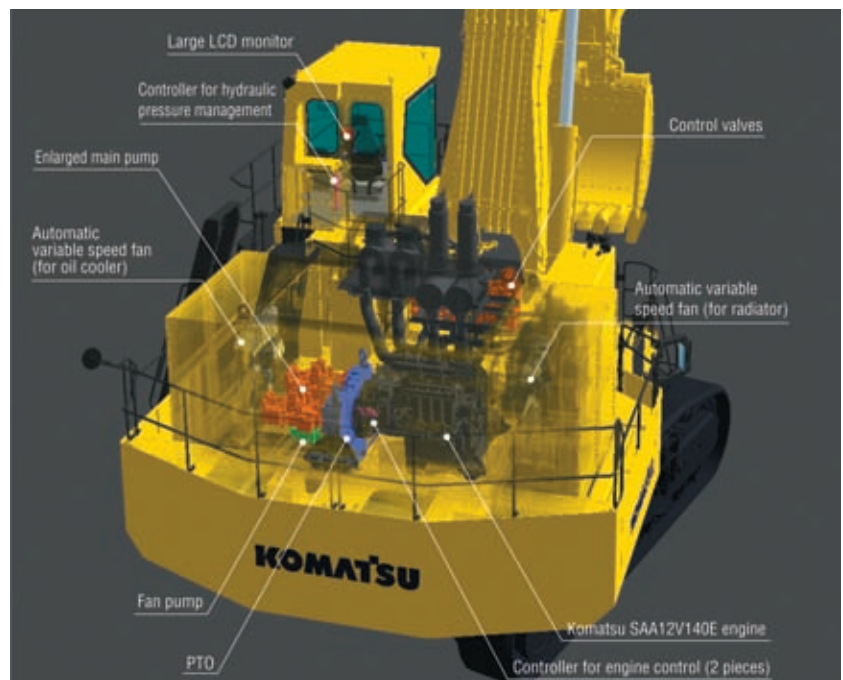
Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house.

With this “Komatsu Technology,” and through customer feedback, Komatsu is achieving great advancements in technology.

To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and economical excavators.

## Powerful and Fuel Efficient Machine Achieved by Total Power Management

PC2000-8 is equipped with the new Komatsu SAA12V140E engine that features clean, fuel efficient, and powerful performance. Power losses in hydraulic system, cooling fan, and PTO are reduced. Total Power Management using On-demand Power Control System succeeds in drastically reducing the fuel consumption per hour. The machine has enhanced functions that contribute to energy-saving operation including adjustable ‘E mode’ and ‘Eco-gauge’. The PC2000-8 is a new generation, clean, and economical machine.



### ON-DEMAND POWER OPERATION SYSTEM

#### On-demand fan speed and engine output control system

Controls the rotational speed of the fan according to the hydraulic oil and coolant temperature, and varies the engine output depending on the fan speed.

#### On-demand power control system

Controls pump absorbing horsepower and engine output automatically according to the job.

#### All-out power delivery system

Outputs all-out engine power when the heavy lift mode and travel is selected.

## High Power Komatsu Engine 713 kW (956 HP)

Equipped with a high efficiency turbocharger with large air-to-air after-cooler, the engine delivers high output of 713 kW **956 HP**. The ample engine power enables an increase in work efficiency. The clean engine is EPA Tier 2 emissions certified.



## Heavy Lift Mode

Turning the heavy lift mode switch on activates the all-out power delivery system to increase the lifting force of the boom. This mode is beneficial when handling rock and during heavy lifting applications.



## Selectable Working Modes

Two established work modes are further improved. You can select Power or Economy modes using a one-touch operation on the monitor panel. Two E-mode settings available, enabling the operator to select the mode that delivers the best combination of production and fuel efficiency for the working conditions.



Working mode selection switch

## Advanced Environmentally Friendly Features

### Eco-gauge

The Eco-gauge is provided on the right side of the monitor screen for energy saving operation. The gauge informs the operator of cumulative achievement to a predetermined fuel consumption target. By keeping the gauge indication within the green range, the operator can perform fuel-efficient operation to meet the target value.



Eco-gauge

### Idling caution

To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor when the engine idles for 5 minutes or more.

### Auto deceleration and auto idling system

The machine is equipped with the auto deceleration system (1400 rpm), reducing operating noise as well as fuel consumption. The auto idling system enables the engine idling speed to be set at a lower speed.

### Power module packaging for ultra low-noise operation

Noise sources such as the engine, cooling fan, and hydraulic pumps are packaged in the machinery house. Large sound absorbing blades attached on the air intake and exhaust outlet block noise transmission. Combined with the contoured hybrid cooling fan, the machine realizes environmentally-friendly operation with amazingly low-noise.

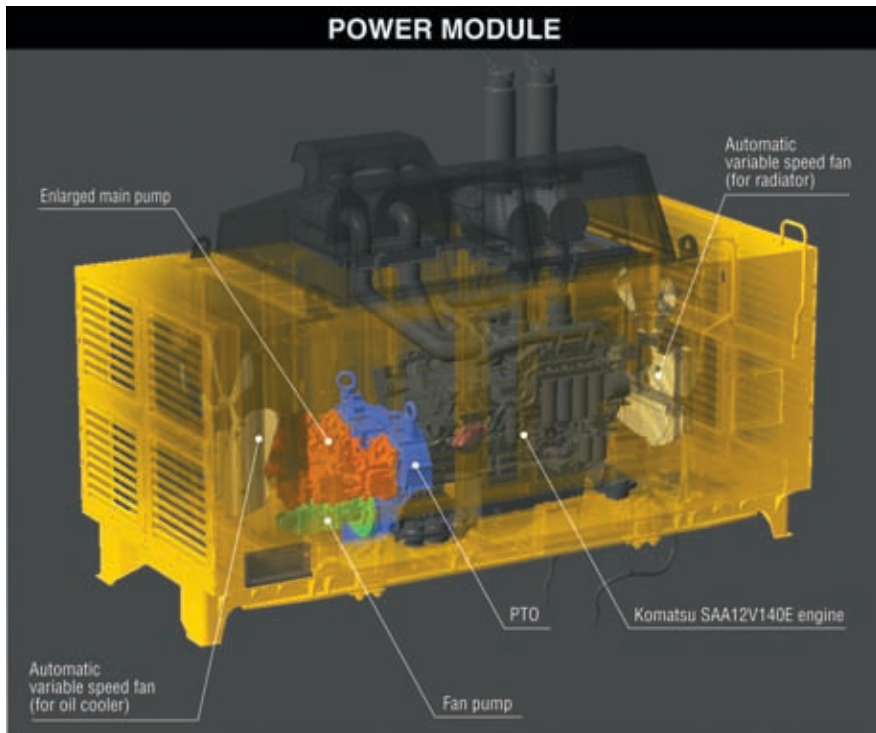
# RELIABILITY & DURABILITY FEATURES

*Designed and built for total cost reduction  
The evolution of reliability and durability*

## Reduced Inspection/Maintenance and Overhaul Man-Hours Achieves Total Cost Reduction

### Power module packaging for easy installation and removal of components

Engine, radiator, oil cooler, hydraulic pumps, and PTO are packaged within the Power module. This design facilitates installation and removal of components, contributing to the reduction of maintenance, transportation, and overhaul hours.



## Repair & Maintenance Cost Drastically Reduced

### Simple construction and enlarged components reduce the number of parts

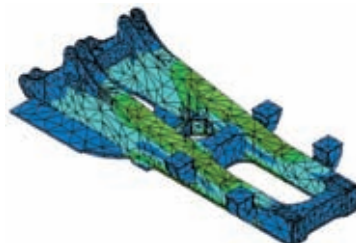
Use of a single-engine, enlarged hydraulic pumps, and simplified hydraulic circuit enables reduced hours required for checking and maintenance. Moreover, significant reduction of number of parts contributes to reduction of overhaul man-hours, resulting in total cost reduction.

## High cooling efficiency machine design

Increased oil cooler capacity lowers the heat balance temperature of the hydraulic oil to realize a cooler operating machine. Heat-resistant rubber seals are used in hydraulic pumps and cylinders to significantly increase component durability. These improvements dramatically extend the service life of the hydraulic system.

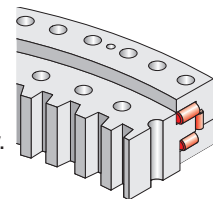
## Strengthened Frame Structure

Revolving frame, center frame, and crawler frame are strengthened completely. The frames endure heavy-duty work and exhibit excellent durability.



## Durable Swing Circle with Triple-Roller Bearing

Large capacity triple-roller bearing is used for the swing circle. The swing circle endures heavy-duty excavating and loading work, and exhibits excellent durability.



## Sturdy Guard/Large Track Link

Travel motors are shielded by sturdy guards. They prevent the motors from being damaged by the thrust of rocks. Enlarged track rollers, in combination with the largest track links, provide excellent durability.



## Heavy-Duty Rock Bucket (optional)

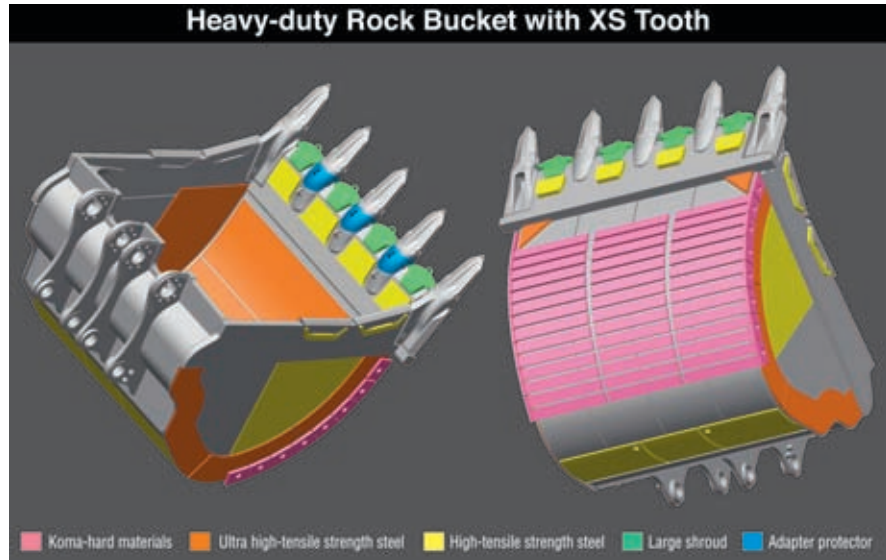
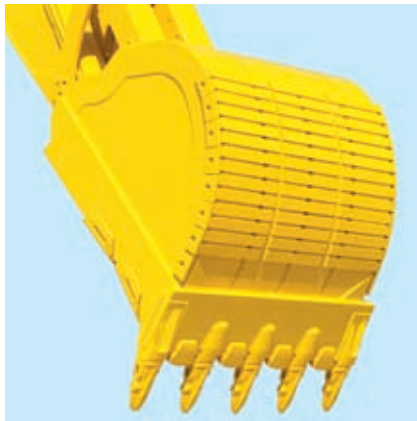
Packaged wear-resistant reinforcement plates are available. The repair cost of the bucket can be considerably reduced with the new design.

\* K VX materials :

Komatsu developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180kgf/mm<sup>2</sup> 256,000 psi class). Features high wear-resistance and less heat-induced alteration during rock digging, maintaining long term hardness.

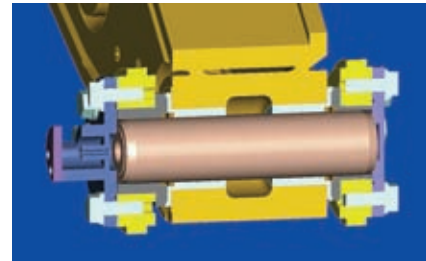
## XS Tooth

- Unique bucket tooth shape, superior digging performance
- Long-term high sharpness
- Great penetration performance
- Hammerless, safe, and easy tooth replacement  
(Tooth replacement time: Half the conventional machine.)



## Wear-Resistant Floating Pins

Boom top pin and arm top pin are the floating type. Since the pin can freely rotate, it receives less friction load and exhibits excellent reliability and durability.



## Arm Rock Protector Guards the Arm Against Impact

Arm rock protector is standard equipment. The protector guards the arm greasing piping against impact.

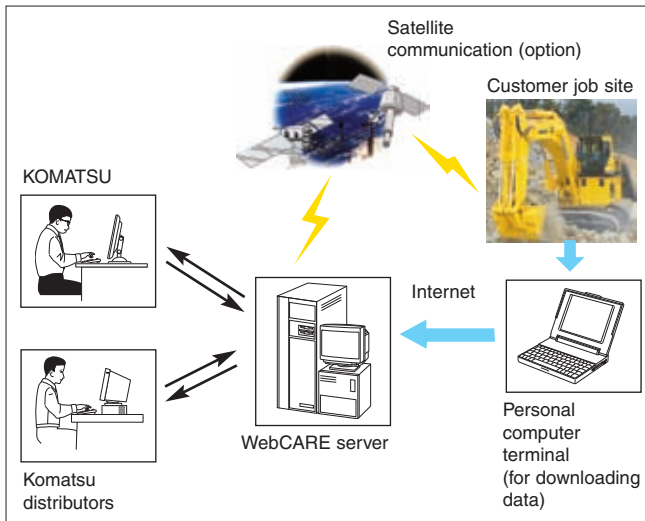


# EASY MAINTENANCE

*Sustained high level performance  
An achievement in the evolution of maintenance*

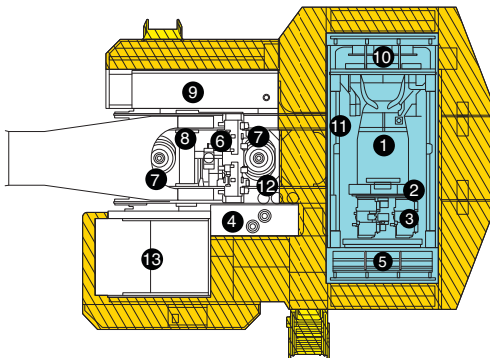
## VHMS (Vehicle Health Monitoring System)

VHMS controller monitors the health conditions of major components and enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.



## Advanced Layout for Easy Checking and Maintenance

Catwalk surrounding the power module and center walkway provides easy access to the inspection and maintenance points.



- |                  |                        |
|------------------|------------------------|
| ■ Access walkway | ■ Power module         |
| ① Engine         | ⑧ Swivel joint         |
| ② PTO            | ⑨ Fuel tank            |
| ③ Hydraulic pump | ⑩ Radiator             |
| ④ Hydraulic tank | ⑪ Air cleaner          |
| ⑤ Oil cooler     | ⑫ Hydraulic oil filter |
| ⑥ Control valve  | ⑬ Cab                  |
| ⑦ Swing motor    |                        |

## Centralized Filters

Centralized filters contribute to easy maintenance.

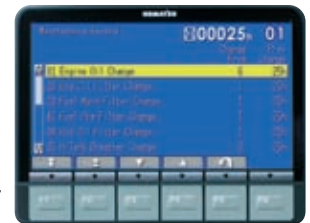
## Monitor function

Controller monitors engine oil level, coolant temperature, battery charge, air clogging, etc. If controller senses any abnormality, it is displayed on the LCD.



## Maintenance function

Monitor indicates replacement time of oil and filters on LCD and warns the operator when service is due.

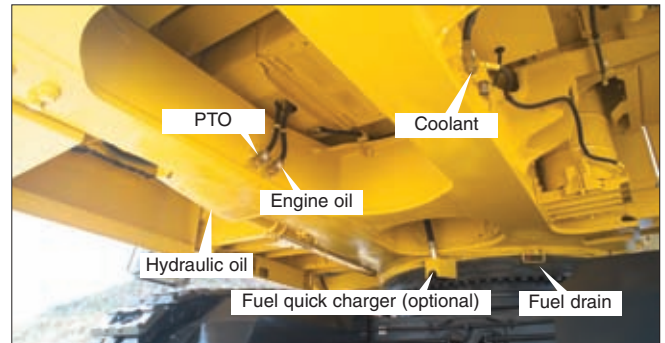


## Trouble data memory function

Monitor stores abnormalities for effective troubleshooting.

## Remote Drain Piping Enables Drainage From Ground Level

Remote drain piping provided to drain hydraulic oil, PTO oil, engine oil, and coolant enable performing draining from ground level.



## Ground Level Refueling System (optional)

Optional remote refueling hose enables ground level refueling.

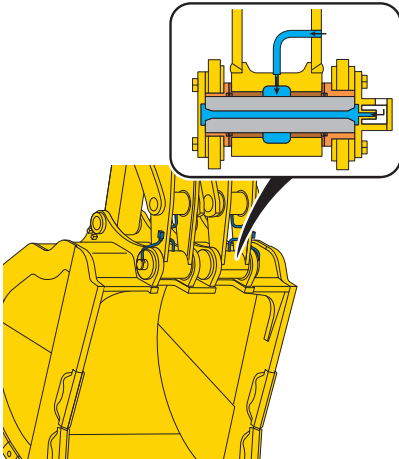
## Large Fuel Tank

3400 ltr 898 U.S. gal large fuel tank enables continuous operation for 24 hours.



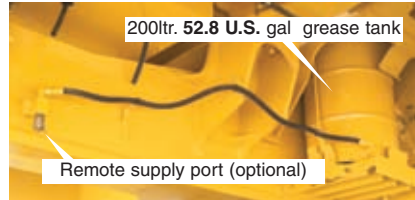
### Automatic Greasing System

Greasing of the work equipment and bucket is fully automated. Greasing is hassle-free since the system carries out automatic greasing at regular time intervals.



### Large Capacity Grease Tank and Easy-to-supply Refill Piping (optional)

The machine is equipped with 200 ltr 52.8 U.S. gal large capacity grease tank enough to perform 24 hours operation. Optional remote refill enables grease supply to the tank from ground level.



### Dust Indicator with Five-step Indication

Informs of air cleaner clogging in five steps.



### Easy Cleaning of Radiator

The hydraulically driven fan can be reversed to facilitate cleaning of the cooling unit. In addition, this feature contributes to reducing warm-up time in low temperatures.

### Fuel Pre-filter (with Water Separator)

Removes water and contaminants from fuel to enhance the fuel system reliability.

### Reduced Maintenance Costs

Hydraulic oil filter replacement is extended from 500 to 1000 hours. Fuel filter replacement interval is extended from 500 to 1000 hours.



Hydraulic filter (Eco-white element)



# WORKING ENVIRONMENT

*“Operator-first” concept in every corner of the machine  
An achievement in the evolution of operator performance*

## Excellent Operational Visibility

Downward visibility is greatly improved by the extended front windshield offering the operator a better view of machine footing. The new interior arrangement, in combination with wide glass windows, improves visibility on the work equipment side and provides excellent visibility of the surroundings.



## New Operator Cab Specially Designed for Mining

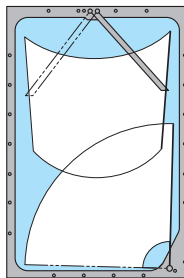
New operator cab provides a comfortable working environment. Sturdy cab of solid construction, with integrated top guard conforming to OPG level 2.



OPG top guard level 2 integrated into the cab

## Large Twin Wipers

Large twin wipers cover the windshield area and provide excellent front visibility even in the rain.



## Dual Rearview Mirrors

Mirrors provide excellent visibility in the left rear field of vision.



## Step Light with Timer

Step light with timer provides light for 90 seconds.



Step light with timer

## Engine Stop Devices & Fuel Cut-Off Lever

Engine stop devices are provided at two points on the power module as standard equipment. Engine start lock function of the switch is used during maintenance work. In addition, a fuel cut-off lever provided on the revolving frame allows stopping the engine from the ground.

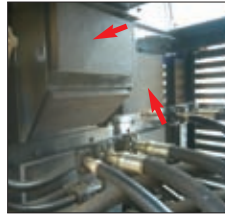


Emergency stop switch (with engine start lock function)

Fuel cut-off lever

## Bulkhead Wall

The bulkhead wall separates the engine and pump rooms.



## Interconnected Horn and Flashing Light

Allows the operator to give visual and audible notice to the dump truck operator.



## High Intensity Discharge (HID) Working Light (optional)

HID working light with double the luminance of a conventional halogen lamp is available for night work.



## Rearview Monitoring System (optional)

Up to three video cameras can be installed to monitor the rear of the machine (full-screen or split-screen display selectable).



*Equipment designed to minimize operator fatigue  
An achievement in the evolution of comfort performance*



### Spacious and Comfortable New Cab Design

Large cab designed for exclusive use in mining shovels provides enough space to relax during operation. The cab with improved air tightness is pressurized to help prevent dust from entering. Combined with a large capacity twin air conditioner that cools and heats the cab effectively, ample and comfortable operating environment is realized.

**Cab volume**      **30% increased**

Compared with PC1800-6

### Comfortable Air Suspension Seat

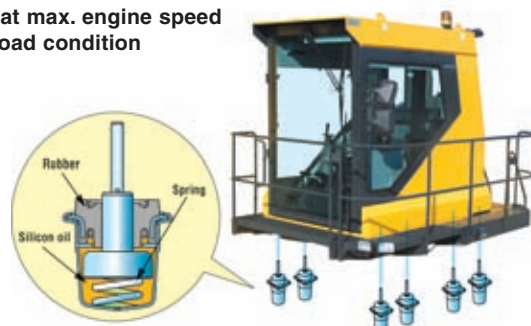
The seat with air suspension minimizes and softens vibrations transmitted to the operator. The seat can be adjusted in a number of ways to accommodate the operator's weight and physique.

### Comfortable Operating Environment with Same Level of Low Noise as Passenger Cars

Integral structure of cab and new damper mounts, in combination with power module packaging, attain outstanding low noise and vibration in the cab, equivalent to passenger cars.

**Noise level**      **64.5 dB(A)**

In the cab at max. engine speed under no-load condition



## Easy-to-See and Easy-to-Use Large 7-inch TFT-LCD Monitor

The machine is equipped with a large 7-inch TFT-LCD monitor. Panel visibility is significantly improved by the use of the high-resolution TFT-LCD panel. The panel switch group is easy-to-use, enabling switch over of engine output and increase of lifting force during operation. Furthermore, use of function key enables the operator to perform multi-functions with ease. Character display can be selected among nine languages.



Indicators		Basic operation switches	
1	Wiper (ON: Continuous/INT: intermittent)	1	Auto deceleration
2	Swing holding brake	2	Working mode selection
3	Engine preheating	3	Heavy lift mode selection
4	Automatic greasing	4	Buzzer cancel
5	Engine stop caution	5	Wiper
6	Digital clock (switchable to service meter display)	6	Window washer
7	Auto deceleration		
8	Working mode		
9	Heavy lift mode		
10	Coolant temperature gauge (switchable to PTO temperature gauge display)		
11	Coolant temperature gauge (switchable to PTO temperature display)		
12	Hydraulic oil temperature gauge (switchable to engine oil temperature gauge display)		
13	Hydraulic oil temperature gauge (switchable to engine oil temperature display)		
14	Fuel level gauge (switchable to engine oil temperature gauge display)		
15	Fuel level gauge (switchable to engine oil temperature display)		
16	Truck loading counter		
17	Eco-gauge		
18	Function switch menu		
19	Function switch display		



## Standard Equipment



*Air conditioner control panel*



*Trainer's seat diagonally behind the operator*



*Sun shield*



*Defroster*



*Floormat*



*Room light*



*AM/FM radio/bottle holder/cigarette lighter*



*Ashtray*



*Utility space/lunchbox*

# PC2000-8 HYDRAULIC EXCAVATOR

## SPECIFICATIONS



### ENGINE

Model ..... Komatsu SAA12V140E-3  
 Type ..... 4-cycle, water-cooled, direct injection  
 Aspiration ..... Turbocharged, aftercooled  
 Number of cylinders ..... 12  
 Bore ..... 140 mm **5.51"**  
 Stroke ..... 165 mm **6.50"**  
 Piston displacement ..... 30.48 ltr **1860 in<sup>3</sup>**  
 Governor ..... All-speed, electronic  
 Horsepower:  
   SAE J1995 ..... Gross 728 kW **976 HP**  
   ISO 9249 / SAE J1349 ..... Net 713 kW **956 HP**  
   Hydraulic fan at maximum speed ..... 679 kW **910 HP**  
 Rated rpm ..... 1800 rpm  
 Fan drive type ..... Hydraulic



### HYDRAULIC SYSTEM

Type ..... Open-center load sensing system  
 Number of selectable working modes ..... 2  
 Main pump:  
   Type ..... Variable displacement piston pumps  
   Pumps for ..... Boom, arm, bucket, swing and travel circuits  
 Maximum flow:  
   For attachment, swing and travel .. 2317 ltr/min **612.2 U.S. gpm**  
   For fan drive ..... 324 ltr/min **85.6 U.S. gpm**  
 Hydraulic motors:  
   Travel ..... 2 x axial piston motors with parking brake  
   Swing ..... 2 x axial piston motors with swing holding brake  
   Fan ..... 2 x axial piston motors  
 Relief valve setting:  
 Attachment circuits  
   Backhoe ..... 29.4 MPa 300 kgf/cm<sup>2</sup> **4,270 psi**  
   Loading shovel ..... 29.4 MPa 300 kgf/cm<sup>2</sup> **4,270 psi**  
   Travel circuit ..... 32.9 MPa 335 kgf/cm<sup>2</sup> **4,760 psi**  
   Swing circuit ..... 29.4 MPa 300 kgf/cm<sup>2</sup> **4,270 psi**  
   Pilot circuit ..... 2.9 MPa 30 kgf/cm<sup>2</sup> **430 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 2138 mm **9.8" x 84.2"**  
   Bucket ..... 2 – 200 mm x 2170 mm **7.9" x 85.4"**  
 Loading shovel  
   Boom ..... 2 – 280 mm x 1930 mm **11.0" x 76.0"**  
   Arm ..... 2 – 200 mm x 2170 mm **7.9" x 85.4"**  
   Bucket ..... 2 – 225 mm x 2050 mm **8.9" x 80.7"**  
   Bottom dump ..... 2 – 180 mm x 600 mm **7.1" x 23.6"**



### SWING SYSTEM

Swing gear ..... 2 x Planetary gear  
 Swing circle lubrication ..... Grease  
 Swing holding brakes ..... Mechanical disc brakes  
 Swing speed ..... 4.8 rpm



### DRIVE SYSTEM

Travel gear ..... Planetary gear  
 Gradeability ..... 65%  
 Maximum travel speed ..... 2.7 km/h **1.7 mph**  
 Parking brakes ..... Mechanical disc brakes



### UNDERCARRIAGE

Track adjuster ..... Grease  
 No. of shoes ..... 49 each side  
 No. of carrier rollers ..... 3 each side  
 No. of track rollers ..... 8 each side



### COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank ..... 3400 ltr **898.3 U.S. gal**  
 Radiator ..... 180 ltr **47.6 U.S. gal**  
 Engine ..... 120 ltr **31.7 U.S. gal**  
 Travel gear, each side ..... 85 ltr **22.5 U.S. gal**  
 Swing drives ..... 30 x 2 ltr **7.9 x 2 U.S. gal**  
 Hydraulic tank ..... 1300 ltr **343.5 U.S. gal**  
 PTO ..... 30 ltr **7.9 U.S. gal**



### OPERATING WEIGHT (APPROXIMATE)

**BACKHOE**  
 Operating weight, including 8700 mm **28'7"** boom, 3900 mm **12'10"** arm, SAE heaped 12.0 m<sup>3</sup> **15.7 yd<sup>3</sup>** general purpose backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

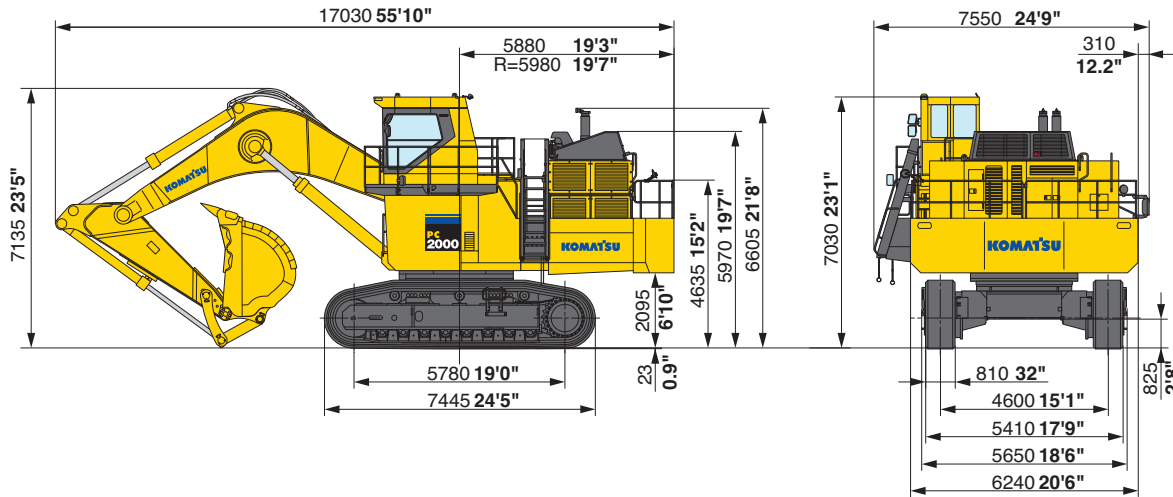
Shoes	PC2000-8	
	Operating Weight	Ground Pressure
Double grouser 810 mm 32"	200000 kg <b>440,920 lb</b>	190 kPa 1.94 kgf/cm <sup>2</sup> <b>27.6 psi</b>
Triple grouser 1010 mm 40"	204120 kg <b>450,000 lb</b>	156 kPa 1.59 kgf/cm <sup>2</sup> <b>22.6 psi</b>

**LOADING SHOVEL**  
 Operating weight, including 5950 mm **19'6"** boom, 4450 mm **14'7"** arm, 11.0 m<sup>3</sup> **14.4 yd<sup>3</sup>** heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.

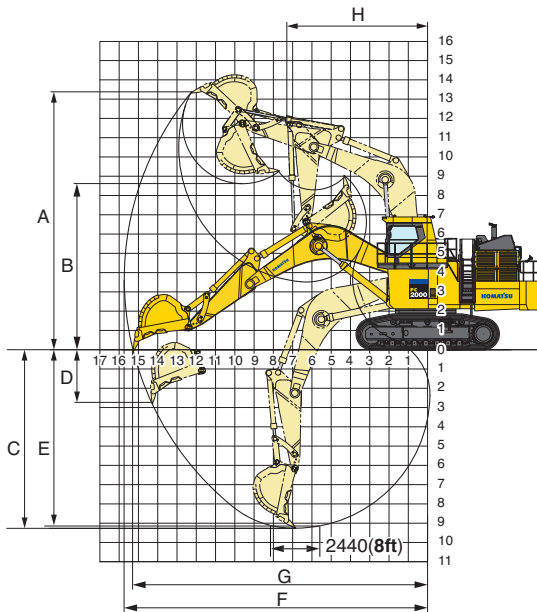
Shoes	PC2000-8	
	Operating Weight	Ground Pressure
Double grouser 810 mm 32"	195000 kg <b>429,900 lb</b>	186 kPa 1.90 kgf/cm <sup>2</sup> <b>27.0 psi</b>

## BACKHOE DIMENSIONS

Unit: mm ft in



## BACKHOE 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 of cut for 8' level	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"
Bucket digging force (SAE)	626 kN 63.8 ton / 70.3 U.S. ton
Arm crowd force (SAE)	574 kN 58.5 ton / 64.5 U.S. ton
Bucket digging force (ISO)	697 kN 71.1 ton / 78.4 U.S. ton
Arm crowd force (ISO)	586 kN 59.8 ton / 65.9 U.S. ton

## BACKHOE BUCKET

BUCKET CAPACITY (HEAPED)		WIDTH		WEIGHT (with Side Shrouds) kg lb	MAX MATERIAL DENSITY (Loose) t / m <sup>3</sup> lb / yd <sup>3</sup>	RECOMMENDED USES	TOOTH SYSTEM
SAE, PCSA m <sup>3</sup> yd <sup>3</sup>	CECE m <sup>3</sup> yd <sup>3</sup>	Without Side Shrouds mm in	With Side Shrouds mm in				
*12.0 15.7	11.0 14.4	2600 102"	2670 105"	12400 27,340	1.8 3,000	Rock	XS145
12.0 15.7	11.0 14.4	2600 102"	2670 105"	9700 21,380	1.8 3,000	General purpose	XS145
*13.7 17.9	12.0 15.7	2720 107"	2790 110"	12500 27,560	1.5 2,500	Rock	XS145
13.7 17.9	12.0 15.7	2720 107"	2790 110"	10500 23,150	1.5 2,500	General purpose	XS145

These charts are based on over-side stability with fully loaded bucket at maximum reach.

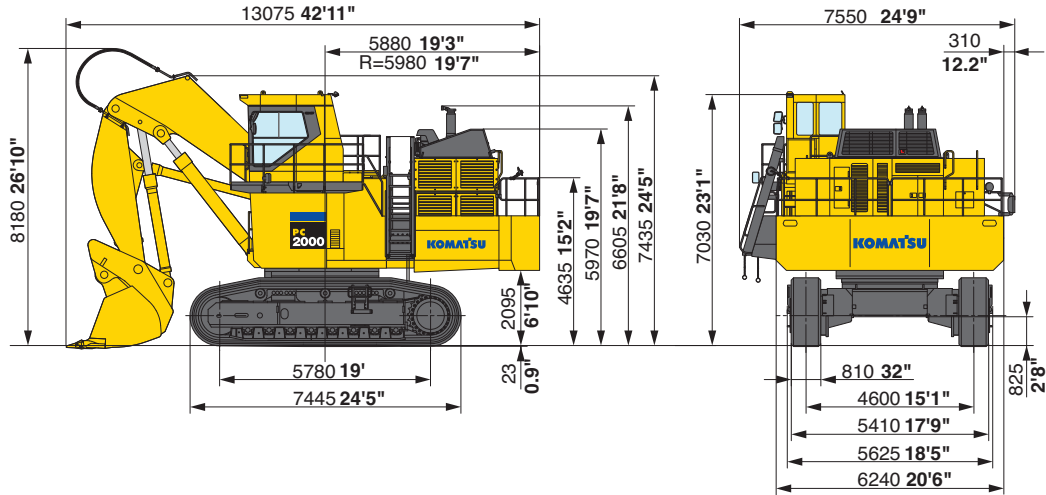
\*Wear-resistant bucket

# PC2000-8 HYDRAULIC EXCAVATOR

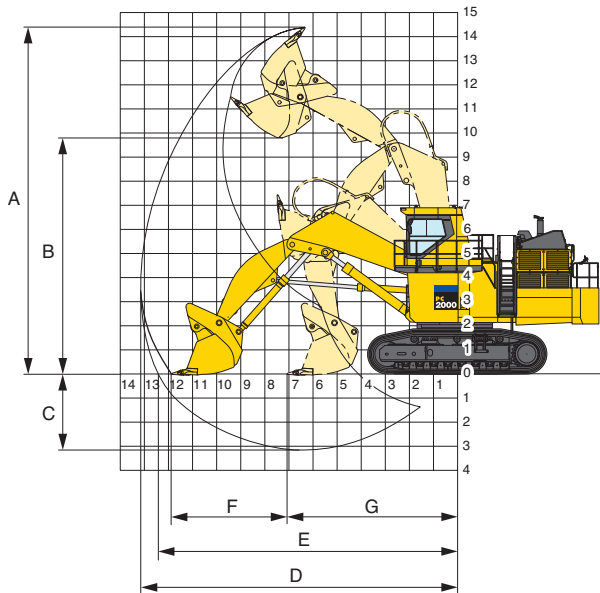


## LOADING SHOVEL DIMENSIONS

Unit: mm ft in



## LOADING SHOVEL WORKING RANGE



## Working Range

Type of bucket	Bottom dump	
Capacity-heaped	11.0 m <sup>3</sup>	14.4 yd <sup>3</sup>
A Max. cutting height	14450 mm	47'5"
B Max. dumping height	9665 mm	31'9"
C Max. digging depth	3190 mm	10'6"
D Max. digging reach	13170 mm	43'3"
E Max. digging reach at ground level	11940 mm	39'2"
F Level crowding distance	4850 mm	15'11"
G Min. crowd distance	7090 mm	23'3"
Bucket digging force	721 kN 73.5 ton / 81.0 U.S. ton	
Arm crowd force	755 kN 77.0 ton / 84.9 U.S. ton	



## LOADING SHOVEL BUCKET

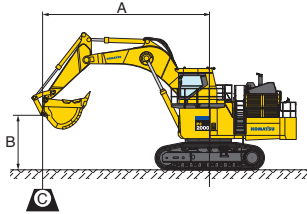
Type of bucket	Bottom dump	
Capacity-heaped	11.0 m <sup>3</sup>	14.4 yd <sup>3</sup>
Width (with side shrouds)	3220 mm	127"
Weight	14400 kg	31,750 lb
Tooth system	XS145	
No. of bucket teeth	6	
Max. material density	1.8 t / m <sup>3</sup>	3000 lb / yd <sup>3</sup>



# LIFTING CAPACITIES



### LIFTING CAPACITY



### PC2000-8

Equipment:

- Boom: 8.7 m 28'7"
- Arm: 3.9 m 12'10"
- Bucket: 12.0 m<sup>3</sup> 15.7 yd<sup>3</sup>
- Bucket weight: 9700 kg 21,380 lb
- Track shoe width: 810 mm 32"

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side

⊗: Rating at maximum reach

### Heavy Lift Off

Unit: kg lb

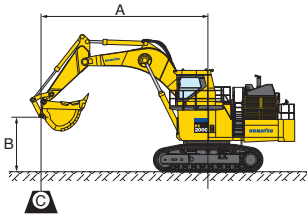
B	A	⊗ Maximum		10.7 m 35'		9.1 m 30'		7.6 m 25'		6.1 m 20'		4.6 m 15'		3.0 m 10'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'		*21050 <b>*46,400</b>	*21050 <b>*46,400</b>	*31450 <b>*69,300</b>	*31450 <b>*69,300</b>										
6.1 m 20'		*21950 <b>*48,400</b>	*21950 <b>*48,400</b>	*33350 <b>*73,500</b>	*33350 <b>*73,500</b>	*38650 <b>*85,200</b>	*38650 <b>*85,200</b>	*46700 <b>*102,900</b>	*46700 <b>*102,900</b>						
4.6 m 15'		*23400 <b>*51,500</b>	*23400 <b>*51,500</b>	*35400 <b>*78,000</b>	*35400 <b>*78,000</b>	*42000 <b>*92,500</b>	*42000 <b>*92,500</b>	*52200 <b>*115,000</b>	*52200 <b>*115,000</b>						
3.0 m 10'		*25500 <b>*56,200</b>	24100 <b>53,100</b>	*37150 <b>*81,900</b>	36050 <b>79,400</b>	*44850 <b>*98,800</b>	*44850 <b>*98,800</b>	*56550 <b>*124,700</b>	*56550 <b>*124,700</b>						
1.5 m 5'		*28450 <b>*62,700</b>	24150 <b>53,200</b>	*38300 <b>*84,400</b>	34650 <b>76,300</b>	*46650 <b>*102,900</b>	44900 <b>99,000</b>	*59050 <b>*130,100</b>	*59050 <b>*130,100</b>	*61150 <b>*134,800</b>	*61150 <b>*134,800</b>				
0 m 0'		*29800 <b>*65,700</b>	25050 <b>55,200</b>	*38500 <b>*84,800</b>	33600 <b>74,100</b>	*47150 <b>*103,900</b>	43450 <b>95,800</b>	*59400 <b>*130,900</b>	58650 <b>129,300</b>	*68850 <b>*151,800</b>	*68850 <b>*151,800</b>				
-1.5 m -5'		*30250 <b>*66,600</b>	27000 <b>59,500</b>	*37200 <b>*82,000</b>	33100 <b>73,000</b>	*45950 <b>*101,300</b>	42750 <b>94,200</b>	*57550 <b>*126,800</b>	*57550 <b>*126,800</b>	*73500 <b>*162,000</b>	*73500 <b>*162,000</b>	*48800 <b>*107,500</b>	*48800 <b>*107,500</b>	*33650 <b>*74,200</b>	*33650 <b>*74,200</b>
-3.0 m -10'		*30350 <b>*66,900</b>	*30350 <b>*66,900</b>	*33700 <b>*74,300</b>	33200 <b>73,200</b>	*42650 <b>*94,000</b>	*42650 <b>*94,000</b>	*53300 <b>*117,500</b>	*53300 <b>*117,500</b>	*67000 <b>*147,700</b>	*67000 <b>*147,700</b>	*68250 <b>*150,400</b>	*68250 <b>*150,400</b>	*50150 <b>*110,600</b>	*50150 <b>*110,600</b>
-4.6 m -15'		*29750 <b>*65,500</b>	*29750 <b>*65,500</b>			*36050 <b>*79,400</b>	*36050 <b>*79,400</b>	*45850 <b>*101,100</b>	*45850 <b>*101,100</b>	*57200 <b>*126,000</b>	*57200 <b>*126,000</b>	*70850 <b>*156,200</b>	*70850 <b>*156,200</b>	*69500 <b>*153,200</b>	*69500 <b>*153,200</b>
-6.1 m -20'		*27000 <b>*59,500</b>	*27000 <b>*59,500</b>					*33150 <b>*73,100</b>	*33150 <b>*73,100</b>	*42200 <b>*93,000</b>	*42200 <b>*93,000</b>	*50800 <b>*111,900</b>	*50800 <b>*111,900</b>		

\* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J/ISO10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

# PC2000-8 HYDRAULIC EXCAVATOR



## LIFTING CAPACITY



### PC2000-8

Equipment:

- Boom: 8.7 m 28'7"
- Arm: 3.9 m 12'10"
- Bucket: 12.0 m<sup>3</sup> 15.7 yd<sup>3</sup>
- Bucket weight: 9700 kg 21,380 lb
- Track shoe width: 810 mm 32"

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side

⊗: Rating at maximum reach

### Heavy Lift On

Unit: kg lb

A \ B	⊗ Maximum		10.7 m 35'		9.1 m 30'		7.6 m 25'		6.1 m 20'		4.6 m 15'		3.0 m 10'	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'	*23900 <b>*52,700</b>	*23900 <b>*52,700</b>	*36150 <b>*79,600</b>	*36150 <b>*79,600</b>										
6.1 m 20'	*24850 <b>*54,800</b>	*24850 <b>*54,800</b>	*38350 <b>*84,500</b>	*38350 <b>*84,500</b>	*44150 <b>*97,300</b>	*44150 <b>*97,300</b>	*52950 <b>*116,700</b>	*52950 <b>*116,700</b>						
4.6 m 15'	*26450 <b>*58,300</b>	24800 <b>54,700</b>	*40700 <b>*89,700</b>	37700 <b>83,100</b>	*48000 <b>*105,800</b>	*48000 <b>*105,800</b>	*59350 <b>*130,800</b>	*59350 <b>*130,800</b>						
3.0 m 10'	*28700 <b>*63,200</b>	24100 <b>53,100</b>	*42800 <b>*94,300</b>	36050 <b>79,400</b>	*51300 <b>*113,100</b>	47050 <b>103,700</b>	*64450 <b>*142,000</b>	63650 <b>140,300</b>						
1.5 m 5'	*31950 <b>*70,400</b>	24150 <b>53,200</b>	*44150 <b>*97,300</b>	34650 <b>76,300</b>	*53500 <b>*117,900</b>	44900 <b>99,000</b>	*67350 <b>*148,500</b>	60500 <b>133,400</b>	*62850 <b>*138,600</b>	*62850 <b>*138,600</b>				
0 m 0'	*34100 <b>*75,200</b>	25050 <b>55,200</b>	*44400 <b>*97,900</b>	33600 <b>74,100</b>	*54150 <b>*119,400</b>	43450 <b>95,800</b>	*67900 <b>*149,600</b>	58650 <b>129,300</b>	*62450 <b>*137,600</b>	*62450 <b>*137,600</b>				
-1.5 m -5'	*35300 <b>*77,800</b>	27000 <b>59,500</b>	*43100 <b>*95,000</b>	33100 <b>73,000</b>	*52900 <b>*116,600</b>	42750 <b>94,200</b>	*65950 <b>*145,300</b>	57850 <b>127,500</b>	*62950 <b>*138,800</b>	*62950 <b>*138,800</b>	*54150 <b>*119,300</b>	*54150 <b>*119,300</b>	*37650 <b>*83,000</b>	*37650 <b>*83,000</b>
-3.0 m -10'	*35550 <b>*78,300</b>	30600 <b>67,400</b>	*39250 <b>*86,500</b>	33200 <b>73,200</b>	*49300 <b>*108,600</b>	42700 <b>94,100</b>	*61300 <b>*135,100</b>	57500 <b>127,800</b>	*64650 <b>*142,500</b>	*64650 <b>*142,500</b>	*61500 <b>*135,600</b>	*61500 <b>*135,600</b>	*55650 <b>*122,700</b>	*55650 <b>*122,700</b>
-4.6 m -15'	*34950 <b>*77,000</b>	*34950 <b>*77,000</b>			*42000 <b>*92,600</b>	*42000 <b>*92,600</b>	*53100 <b>*117,100</b>	*53100 <b>*117,100</b>	*66000 <b>*145,500</b>	*66000 <b>*145,500</b>	*62200 <b>*137,100</b>	*62200 <b>*137,100</b>	*62000 <b>*136,600</b>	*62000 <b>*136,600</b>
-6.1 m -20'	*32150 <b>*70,800</b>	*32150 <b>*70,800</b>					*39150 <b>*86,300</b>	*39150 <b>*86,300</b>	*49500 <b>*109,100</b>	*49500 <b>*109,100</b>	*59650 <b>*131,500</b>	*59650 <b>*131,500</b>		

\* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J/ISO10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

# TRANSPORTATION GUIDE

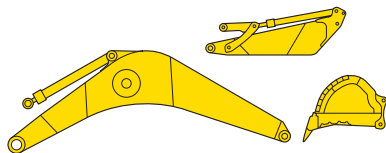


Specifications shown include the following equipment:

**Backhoe:** boom 8700 mm 28'7", arm 3900 mm 12'10", bucket 12.0 m<sup>3</sup> 15.7 yd<sup>3</sup>, shoes 810 mm 32" double grouser

**Loading Shovel:** boom 5950 mm 19'6", arm 4450 mm 14'7", bucket 11.0 m<sup>3</sup> 14.4 yd<sup>3</sup>, shoes 810 mm 32" double grouser

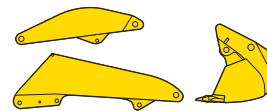
### Work equipment assembly-backhoe



	Length mm ft in	Width mm ft in	Height mm ft in	Weight ton U.S. ton
<b>Boom</b>	9170 30'1"	2065 6'9"	3195 10'6"	20.9 23.0
<b>Arm</b>	5495 18'0"	1605 5'3"	2055 6'9"	12.9 14.2
<b>Bucket</b>	3540 11'7"	2790 9'2"	2320 7'7"	9.7 10.7

	Length mm ft in	Weight ton U.S. ton	Quantity
<b>Boom cylinder</b>	4265 14'0"	2.4 2.7	2

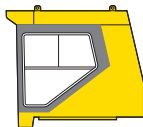
### Work equipment assembly-Loading Shovel



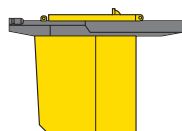
	Length mm ft in	Width mm ft in	Height mm ft in	Weight ton U.S. ton
<b>Boom</b>	6400 21'0"	1740 5'9"	2000 6'7"	11.8 13.0
<b>Arm</b>	4900 16'1"	1450 4'9"	1700 5'7"	9.5 10.5
<b>Bucket</b>	3500 11'6"	3190 10'6"	2920 9'7"	14.4 15.9

	Length mm ft in	Weight ton U.S. ton	Quantity
<b>Boom cylinder</b>	4265 14'0"	1.90 2.09	2
<b>Arm cylinder</b>	3370 11'1"	1.05 1.16	2
<b>Bucket cylinder</b>	3350 11'0"	1.10 1.21	2

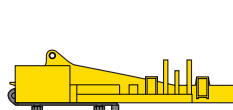
### Cab



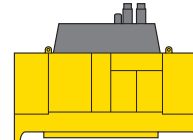
### Cab base



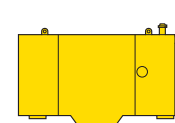
### Revolving frame



### Power module



### Fuel tank

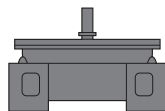


Length mm ft.in	2885 9'6"	3660 12'0"	7575 24'10"	5215 17'1"	3100 10'2"
Width mm ft.in	1880 6'2"	630 2'1"	3180 10'5"	2455 8'1"	875 2'10"
Height mm ft.in	2520 8'3"	2505 8'3"	2640 8'8"	3195 10'6"	2070 6'9"
Weight t U.S. ton	1.8 1.98	2.0 2.2	26.5 29.2	16.1 17.7	2.4 2.65

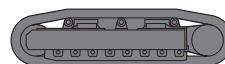
### Counter weight



### Center frame



### Undercarriage



### Hydraulic tank



Length mm ft in	6420 21'1"	3815 12'6"	7435 24'5"	1860 6'1"
Width mm ft in	1115 3'8"	3190 10'6"	1720 5'8"	1115 3'8"
Height mm ft in	1505 4'11"	2210 7'3"	1920 6'4"	2125 7'0"
Weight ton U.S. ton	24.5 27.0	18.0 19'8"	26.0 x 2 28.65 x 2	3.5 3.86

### Others

Catwalk, step, handrail, small removed parts, etc.



## STANDARD EQUIPMENT

### ENGINE AND RELATED ITEMS:

- Air cleaner, double element dry (Inside mounted)
- Two cooling fans with fan guard (Hydraulic drive, for radiator and oil cooler)
- Engine, Komatsu SAA12V140E-3
- Fuel pre-filters with water separators
- Corrosion resistors

### ELECTRICAL SYSTEM:

- Alternators, 2 x 90 amp, 24V
- Batteries, 140 Ah, 4 x 12V
- 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
- Auto decelerator and auto idling system
- AM/FM radio
- Lighted switches on instrument panel

### 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)

### GUARDS AND COVERS:

- Dustproof net for radiator and oil cooler
- Pump/engine room partition cover
- Power module under cover
- Travel motor guard

### OPERATOR'S CAB:

- Large damper mounted and pressurized mining shovel cab with large tinted windshield, lockable door, large twin wipers and washers, floor mats, cigarette lighter, ashtray and cup holders
- Instrument panel with electronic display/monitor system (7"-TFT-LCD), electrically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic oil temp., fuel level, PTO oil temp., engine oil temp.), truck counters, eco-gauge
- Built-in top guard conforming to OPG level 2 (ISO)
- Automatic air conditioners (twin)
- Seat, fully adjustable air suspension with retractable seat belt
- Trainer's seat

- Sun shield
- Fire extinguisher

### HYDRAULIC SYSTEM:

- EOLSS (Electric Open Center Load Sensing 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
- Two axial piston motors for swing with single stage relief valve
- One axial piston motor per track for travel with counterbalance valve
- Four control valves (two integrated valves) for work equipment, swing and travel
- Control levers for work equipment and swing with PPC system
- Control levers and pedals for travel with PPC system
- Oil cooler
- High-pressure in-line oil filters
- Drain-filters for pumps & motors
- Shockless boom control
- Two-mode pressure setting for boom

### DRIVE SYSTEM:

- Planetary travel gear with axial piston motor
- Travel parking brake

### OTHER STANDARD EQUIPMENT:

- Fully-automatic greasing system with 200 liter **52.8 U.S. gal.**
- Manual grease gun for track adjuster
- Fixed emergency escape ladder
- Fully hydraulic ladder
- Fuel tank, 3400 liter **898 U.S. gal.**
- Automatic swing holding brake
- Emergency engine stop switch and fuel shut-off lever
- Maintenance light for night
- Step light with timer
- Light in machine cab
- Travel alarm
- Wide catwalk and large handrail
- Interconnected horn and flashing light
- Dual rearview mirrors
- VHMS (with Orbcomm)



## OPTIONAL EQUIPMENT

- Additional 6 fuses and terminals
- Arms (Backhoe):
  - 3900 mm **12'10"** arm assembly
- Arms (Loading shovel):
  - 4450 mm **14'7"** arm assembly
- Booms (Backhoe):
  - 8700 mm **28'7"** boom assembly
- Booms (Loading shovel):
  - 5950 mm **19'6"** boom assembly
- HID lamp system
- Rearview monitoring system
- Cab front guard

- PM tune-up service connection
- Track shoe, 1010 mm **40"** triple grouser
- Center frame under cover
- Grease refill system (Wiggins)
- Fuel quick charge system (Wiggins)
- Heavy-duty rock bucket
- 55°C **131°F** spec.
- Additional filter system for poor-quality fuel
- Additional pre-cleaner for engine air filter (Engineaire)
- Full length track guiding guards

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