

# KOMATSU®

## PC200

### Uncompromising combinations

Forestry Quality™



Komatsu PC200 with  
Komatsu 370E or Komatsu S132 units

FOREST EXCAVATOR



# PC200



**Komatsu PC200 Excavator with Komatsu 370E or Komatsu S132 units** is a unique combination for operating in clear felling areas and where an alternative to a wheeled harvester is needed.

## This vehicle combines

the features of an ordinary, heavy-duty, and multi-purpose excavator with the high productivity of a harvester. This vehicle will save you investments while providing multi-functionality in a forest, due to its well-designed carrier vehicle – from hydraulics to the control system.

What you get are only clear advantages for forestry work.

## Towards efficient forestry

The saying 'Time is money' is more important for forestry than for any other industry. Every hour and every minute means profit or cost. Therefore it's useful to know that Komatsu PC200 with Komatsu 370E or Komatsu S132 combines reliability and productivity, while offering fast and easy maintenance. As a result, these vehicles make work in the forest maximally efficient.

This forest excavator is specially designed for high productivity, low fuel consumption, and maximum comfort for the operator. Komatsu SAA6D107E-1 turbo diesel engine gives Komatsu PC200 its exceptional power and operational capabilities. Engine power according to SAE J1995 standard amounts to 110 kW (147 hp), ensuring a higher hydraulic effort and increased fuel savings.

## Broader scope of application

Komatsu excavators have been used in Russia since 1968. They have been tested under the harshest climatic conditions, from gas pipe-laying to quarry mining, where other vehicles simply are unable to work. In the forest, the excavator is an indispensable and the most reliable machine - its power and its impressive felling radius ensure efficient operation without unnecessary and time-consuming travel.

If necessary, you can quickly retool this forest vehicle into a road excavator to build roads in the forest.





### Specially developed for forest operation

Komatsu PC200 for forest operations is the result of over 90 years of Japanese excavator design and over 50 years of experience in forest operations.

The hydraulic and electric systems work ideally in felling and cross-cutting. You can turn and travel while felling trees simultaneously.

### Hydraulics

A unique two-pump system ensures smooth and simultaneous movements of working equipment.

The exclusive Komatsu HydraulMind system controls both pumps for optimal use of engine power. The system also reduces hydraulic loss during operation.

### Operator's working environment

Komatsu EME multifunctional joysticks with proportional pressure distribution enable precise operation in a comfortable position.

The cab is mounted on spring-loaded viscous dampers with increased piston stroke. Such damping suspension system of the new cab combined with high base rigidity helps reduce vibrations on the operator's seat. Air conditioner capacity is 43% higher than in previous models. Improved cab closure tightness enabled us to build excessive pressure inside the cab preventing dust penetration.

As a result, we achieved maximum comfort for the operator to ensure long and productive days of work in the forest. Choosing the specialized Komatsu excavator, you choose the best in today's harvesting.



Komatsu excavators are produced at the Komatsu Manufacturing plant (Russia) in Yaroslavl from start to finish. We control the manufacturing process end-to-end: all the key components such as hydraulic control valves, engine, and chassis are designed and manufactured by Komatsu. This provides the vehicle with unique features and reliability.

## CLOSE TO THE CUSTOMER

We know firsthand what work in the forest means. Komatsu Forest engineers and developers in the Komatsu Yaroslavl plant used their experience to equip this vehicle with everything it will need for forest operations. The factory's location in Russia ensures a quick response to our customers' questions and wishes, and improvement of our products.

# YOUR EXCAVATOR SPECIALIZED FOREST VEHICLE



### Monitor and keyboard

The cab is equipped with a new generation 7" HD colour display for excavator functions monitoring, and with a specialized 12" MaxiXplorer forest monitor with a wireless keyboard to control the felling and cross-cutting process.



### 370E and S132

Komatsu 370E or Komatsu S132 units specially designed for work with an excavator will provide you with maximum speed and reliability for work in any forest.

## KOMTRAX

Each machine is equipped with Komtrax excavator performance tracking system. Online access and maintenance of the system are included in the basic package, with free lifetime maintenance.

### Series advantages

Our experience in excavator manufacture, machine harvesting, and close cooperation while searching for forestry solutions are a guarantee of your success in operating the PC 200. Combined with the highly-efficient Komatsu 370E and basic Komatsu S132 you get a harvesting solution of unrivalled efficiency.

Complete with the MaxiXplorer control



The boom is equipped with a special adapter to increase its outreach. Four special hydraulic pipes are fixed with bolts in the lower part of the excavator's arm and equipped with a protective bracket reducing risk of damage. Lubrication points are transferred to easily accessible location facilitating maintenance.



Solid and well-designed protection of the engine hood and compartments reduces risk of damage and penetration of chips, leaves, and waste from air intakes to the engine compartment, which is an additional fire safety precaution measure.



# PC200



system, as powerful as can be imagined, you will get unrestricted access to the excavator's features, from cross-cutting control to MaxiFleet satellite monitoring and control system.

**Every detail of PC 200 has been well-thought through**

The machine has been fully prepared for operations in the forest. Powerful hydraulics

specially developed for forest operations and combining travel and cross-cutting functions. It makes the operation of the vehicle and the unit fast and smooth.

The machine is provided with comfortable electric and hydraulic connections, and you can quickly re-tool a forest excavator into a road one. The machine is protected throughout against falling objects and travelling along a felling area; the rotating

platform is fully protected both from above and from below. In addition it's easy to maintain. The specialized PC 200 is also equipped with special 700 mm wide tracks. The undercarriage is fully prepared for operation in forest conditions, its track wheel protectors, powerful rollers, and special "skis" prevent track bending and damage.



The bucket boom offers additional functionality, i.e. the operator is able to raise the machine, pull out stumps, and conveniently stow the unit for transport, in addition.



The front window is made of safety polycarbonate glass 19 mm thick to protect the operator against chain break or other mechanical impacts.



# SPECIFICATIONS

## KOMATSU PC200

### WEIGHT AND DIMENSIONS

|                                  |           |
|----------------------------------|-----------|
| Approx. weight                   | 21,900 kg |
| Minimum width                    | 2,800     |
| Height (cabin)                   | 3,126 mm  |
| Length, carrier vehicle          | 4,450 mm  |
| Travelling height, short trailer | 3,126 mm  |
| Road clearance                   | 440 mm    |

### ENGINE

Komatsu SAA6D107E-1, 6-cylinder turbo diesel with charged air cooler. SAE J1995 standard power: 110 kW (147 hp) at 2,000 rpm. Fuel tank capacity: 400 litres.

### TRANSMISSION

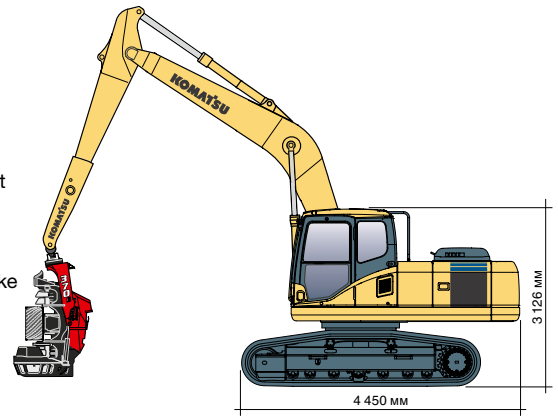
EMMS-controlled hydrostatic transmission. Maximum pull: 178 kN/18,200 kg.

### UNDERCARRIAGE: FOREST SPECIALIZED

Track width: 700 mm, w/three grousers. Central x-frame with modular structure track frame. Fully sealed track shoes  
Number of support rollers – 2 on each side.  
Number of base rollers – 7 on each side.

### TRANSMISSION AND BRAKES

|   |                              |
|---|------------------------------|
| Two pedal levers enable full and independent control of each track. |                              |
| Transmission  | hydrostatic                  |
| Travel motors   | axial piston w/parking brake |
| Swing motor   | axial piston w/platform      |
| holding brake   |                              |
| Reduction gear system   | double planetary gears       |



### HYDRAULIC SYSTEM

HydrauMind. Closed central system w/load sensors and pressure adjustment valves. Maximum flow rate 439 l/min

### CAB

Comfortable SpaceCab™: higher internal air pressure, viscous damper mounts Low noise level ISO standard. Climate control

### KNUCKLE BOOM

Single boom / arm with adapter for the unit or bucket:  
Working radius w/unit: 9.5 m

### UNIT

Komatsu 370E and Komatsu S132: for specifications see page below

### CONTROL AND INFORMATION SYSTEM

EMMS is the improved Komatsu control system intended for managing all of the machine functions, issuing necessary operating data quickly and reliably; data is selected on a user-friendly multifunctional LCD screen. MaxiXplorer system designed for a harvester and installed separately from the carrier vehicle's control system. MaxiXplorer provides ample capabilities for machine setting, cross-cutting, and monitoring the MaxiFleet system operation and use (Satellite monitoring).

### ADDITIONAL EQUIPMENT

Standard and additional equipment will be adapted to various markets. You may request the list of all the additional equipment from your dealer

## PRINCIPAL FEATURES OF KOMATSU PC200 FOREST SPECIFICATION:

### 1. SPECIALISED TRACK FRAME

Increased track width: 700 mm Full protection of track wheels with bolted joints ('ski shoes'). Reinforced supporting track wheels with supports on two sides

### 2. FIRE SAFETY PRECAUTIONS

Screens for fine waste protection  
Exhaust pipe muffler protection  
No sound insulation materials. Openings on platform top covers closed  
Heat resistant shields on turbocharger. Heat resistant jacket on muffler  
Cover over fuel filter

### 3. SPECIAL HYDRAULICS

Electronic pressure and hydraulic line control system of harvester unit Additional hydraulic filters on drain line and bleeding line Additional oil filter (control line). Fuel and hydraulic oil filling pumps

### 4. ROTATING PLATFORM ADAPTATION

Perimeter pipe protection of vehicle body against dead standing trees (pipe D = 57 mm, wall thickness = 3.5 mm). Dismountable structure for easy maintenance access

### 5. LIGHTING

Special LED (light emitting diode) work lighting for round-the-clock operation: on boom and cab.

### 6. BATTERY COMPARTMENT PROTECTION

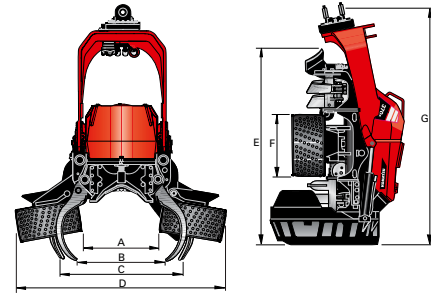
Protection prevents damage to battery compartment in the felling area



# 370E, S132

## KOMATSU 370E, PRINCIPAL FEATURES

- Extra strong suspension bracket for large tree felling and excavator operation
- Well-protected hoses and saw head
- Stronger fixtures for hydraulic motors and all moving parts
- Robust design of the unit's swing mechanism for more reliable operation
- Patented control system for feed rollers gear rails to improve the trunk retention
- Saw set with patented systems for chain tension / bar clamping during sawing
- "Continuous rotating head" function (additional equipment)
- 'Constant cut' function for constant sawing off speed = 40 m/s

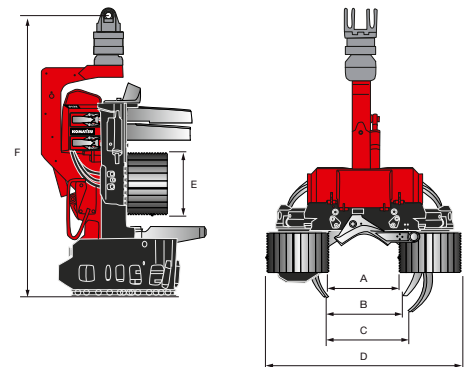


|   |   |  |                                |
|---|---|--|--------------------------------|
| Weight:                                     | 1,600 kg and higher                       | Top saw:   | 54 cm                          |
| Feed rate:                                  | 0-5 m/s                                   | Saw motor:   | 19 cm <sup>3</sup> /revolution |
| Forward force (depending on roller motors): | 21-30.8 kN.                               | Trunk diameter at the sawing point:                                | 700 mm                         |
| Feed rollers:                               | steel or rubber w/anti-slipage protection | Required maximum hydraulic flow rate (depending on roller motors): | 225-330 l/min                  |
|   |   | Required maximum hydraulic pressure:                               | 28 MPa                         |
| Number of knives:                           | 6   |  |                                |
| Trunk diameter at the limbing point:        | 500 mm                                    |  |                                |
| Guide bar:                                  | 82.5 cm                                   |  |                                |

|                                   |                                  |
|-----------------------------------|----------------------------------|
| <b>A</b> Roller opening, max.     | 600 mm                           |
| <b>B</b> Top knives opening       | 640 mm                           |
| <b>C</b> Bottom knives opening    | 750 mm                           |
| <b>D</b> Max. width               | 1950 mm                          |
| <b>E</b> Height to vertical knife | 1780 mm (+ 184 mm incl. top saw) |
| <b>F</b> Roller diameter          | 547 mm                           |
| <b>G</b> Height including rotator | 2080 mm                          |

## KOMATSU S132, PRINCIPAL FEATURES

- Two-roller drawing increases productivity to the maximum in all forest types
- Three moving hydraulic knives, and a fourth moving vertical knife arranged above the housing of the saw mechanism intended for preliminary pruning of low growing branches
- Due to Flex Friction Control knife pressure is adjusted by sensors in the vertical knife ensuring minimal friction between the trunk and the unit
- Easy maintenance with optimal access to all the essential parts
- Efficient arrangement of hoses minimizes wear and downtime
- Well-protected unit computer under a cover
- Manual or automatic chain tensioning option for the unit
- Hand-picked drawing rollers for optimal customer satisfaction
- Equipment for simultaneous processing of several trees by the unit, stub marking using paint and stump treatment (options)
- Optional additional measuring point to enhance diameter measuring precision
- Robust design, frame made of high-strength steel



|   |                   |                                       |                                |
|---|-------------------|---------------------------------------|--------------------------------|
| Weight:                                 | 1345 kg and above | Pruning diameter, from butt to top:   | 428 mm                         |
| Feed rate:                              | 0-4.2 m/s         | Saw guide bar:                        | 83.5 cm                        |
| Drawing force, gross (standard/option): | 26.6/29.0 kN      | Sawing motor:                         | 19 cm <sup>3</sup> /revolution |
| Drawing rollers, type:                  | Steel rollers     | Felling diameter, estimated max:      | 720 mm                         |
| Pruning knives, max. number:            | 4                 | Required maximum hydraulic flow rate: | 280 l/min                      |
|   |                   | Required maximum hydraulic pressure:  | 26 MPa                         |

|                                     |         |
|-------------------------------------|---------|
| <b>A</b> Roller opening, max.       | 625 mm  |
| <b>B</b> Top knives opening, max.   | 641 mm  |
| <b>C</b> Bottom knife opening, max. | 690 mm  |
| <b>D</b> Max. width                 | 1689 mm |
| <b>E</b> Roller diameter            | 532 mm  |
| <b>F</b> Height including rotator   | 2134 mm |

### EQUIPMENT OPTIONS

Standard and additional equipment may vary depending on the country and region of operation. Your dealer has a full list of standard and additional equipment.

Specification data / dimensions may differ depending on the equipment option. We reserve the right to changes in the specifications or designs without prior notice. Photos, diagrams and sketches do not always show the machine in the standard version.

ATTENTION: We mean one of several possible combinations of the unit's dimensions and weight subject to equipment option.



## WHY A KOMATSU HARVESTER EXCAVATOR?

High efficiency, low operating costs, advanced solutions, excellent comfortable working environment for the operator – these are just a few of the advantages making Komatsu one of the world's best harvesters. This is due to a targeted strategy of continuous development of advantages resulting from owning a Komatsu harvester. This strategy is determined by the following key aspects.

### Full professional harvesting set

Choosing Komatsu you start cooperation with harvesting professionals. Buying Komatsu forest excavators, you may also buy Komatsu forwarders. Maintenance, service, and spare parts supply will be from one supplier – this will undoubtedly save your time, money, and nerves.

### Close to customer

Komatsu PC200: The vehicle is assembled from start to finish at the Komatsu plant in Yaroslavl. The end-to-end cycle guarantees 100% assembling quality and Komatsu is responsible for all the units and subassemblies. The closeness of the factory located in Russia offers you advantages in delivery times, response time, and understanding of the design required for the Russian market.

### Economy

Striving to achieve optimal profitability is a major driver for continuous improvement of Komatsu harvesters. Every minor novelty offering higher productivity and reliability, cost reduction, and saving time, is interesting. With Komatsu harvesters, particular and comparable examples are economy engines, highly efficient hydraulic systems, quick-response units, and unsurpassed productivity calculated per unit of time.

### Efficiency

More work done in less time – this is the usual comment of those who have switched to Komatsu harvesters. The many reasons may be seen in the version of individual parts and the entire design. Among the most important are extremely comfortable and efficient operator's seat, structure flexibility, powerful control /information system, and broad range of application.

### After-sale service

Fast and competent service is an important factor in maintaining efficient operation and high productivity. Our dealers, from the North-West to Far East, ensure peace of mind and confidence for the owners of Komatsu vehicles. Well-trained technicians, experts in Komatsu forest machines, are an essential guarantee of confidence for the logger. Another advantage is our ProSelect concept of using original spare parts and consumables. The range is based on selecting parts, each being of the highest quality and tailored for Komatsu vehicles operating in a forest.

### Global coverage

Komatsu harvester-excavators are used worldwide. Therefore, they are adapted to ensure an optimal rate of return irrespective of the conditions they operate in. A similar strategy is development of a global service and sales network supporting thousands of Komatsu owners on a daily basis.