

Komatsu Europe International Launches the New PC490/LC-11 Hydraulic Excavator

Powered by a Komatsu EU Stage IV Engine



Vilvoorde, January 2015 — Komatsu Europe International N.V. introduces the PC490/LC-11 hydraulic excavator to the European market. This new excavator further leverages Komatsu's leadership in technology and innovation with an environmentally friendly EU Stage IV Komatsu engine, up to 11% improved fuel efficiency, an upgraded cab design and enhanced safety and serviceability. Productivity is maximized and operating costs are reduced.

Built on proven EU Stage IIIB engine technology Komatsu's EU Stage IV engines are productive, dependable and efficient. With a net 270 kW (362 HP) @ 1.900 rpm and operating weights between 46.470 kg 48.860 kg, the PC490/LC-11 maintains the powerful performance of the previous Komatsu model.

Vince Porteous, Product Manager at Komatsu Europe International states: "This new excavator does so much more than simply meet EU Stage IV emission regulations: it offers significant advances in fuel consumption, provides 3G communications, improves operator comfort and includes new safety features".

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Key features of the PC490/LC-11

Komatsu EU Stage IV Emission Certified Engine – Productive, dependable, efficient

Komatsu's new EU Stage IV engine integrates SCR to further reduce NOx emissions using the AdBlue® additive. With an advanced electronic control system that manages the air-flow rate, fuel injection, combustion parameters and after treatment functions, the Komatsu EU Stage IV engine optimizes performance, reduces emissions, and provides advanced diagnostic capability. Customers benefit from lower fuel consumption with no loss of performance. Komatsu continues to use a Komatsu Variable Geometry Turbocharger (KVGT) and an Exhaust Gas Recirculation (EGR) valve for precise temperature and air management control and for longer component life.

To ensure product reliability and durability in demanding conditions, Komatsu developed the entire system, including the control software, which is critical to the effective operation of the after treatment system. This control system is also integrated into the machine's on-board diagnostics systems and in KOMTRAX™, Komatsu's standard telematics system.

Lift capacity and stability

The PC490/LC-11 features a heavy-duty undercarriage and maintains the same high lift capacity and lateral stability as the prior model. The operator can easily select Lift Mode, to raise hydraulic pressure and increase lifting force by up to 7%.

Highly efficient hydraulic system

Enhancements have been made to the hydraulic system for reduced hydraulic loss and better efficiency. A hydraulically driven reversible cooling fan varies fan speed in response to coolant, hydraulic oil, and ambient air temperatures, resulting in better efficiency and a quiet work environment for the operator.

All major components on the new PC490/LC-11 including the engine, hydraulic pumps, motors, and valves are exclusively designed and produced by Komatsu. This integrated design uses a closed centre load sensing hydraulic system that takes hydraulic efficiency to the next level using variable speed matching technology. Variable speed matching allows the engine speed to adjust based on the hydraulic pump output for both light and heavy-duty applications.

Operator environment

The PC490/LC-11 cab provides a comfortable and quiet work environment that helps operators maximize productivity. The proportional control joysticks, which are standard, allow precise operation of attachments with comfort and ease. With the addition of the new Neutral Detection System, the risk of inadvertent operation is reduced.

The ROPS certified cab, specifically designed for hydraulic excavators, gains strength from a reinforced box structure framework. The cab is mounted on viscous isolation dampers for low vibration levels. A standard heated high back air suspension seat comes with newly designed fully adjustable armrests for improved comfort. In addition to the standard radio, external devices can play music through the cab speakers by being connected to an auxiliary input. The operator cab also has the benefit of two 12-volt power ports for the operators convenience ..

A high-resolution 7" LCD widescreen colour monitor features enhanced capabilities and displays information in 26 languages for global support. The operator can easily select up to six working modes to match machine performance to the application. The new monitor panel provides information on AdBlue® fluid level, Eco guidance, operational records, fuel consumption history, and utilization information. For improved safety, a standard rear-view camera gives the operator a wide landscape view of the area directly behind the machine and is now incorporated, along with the gauges, as the operating default screen. An optional second camera is available.

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Convenient maintenance and serviceability

The PC490/LC-11 provides easier service access to help reduce costly downtime. The new model has guardrails on both sides of the upper structure for easier accessibility. The hydraulically driven fan can be manually reversed to simplify cleaning out of the cooling assembly. The radiator and hydraulic oil coolers are mounted side by side, making it easier to maintain and service when required.

The excavator is equipped with the exclusive Komatsu EMMS (Equipment Management Monitoring System), which has enhanced diagnostic features that give the operator, and technicians greater monitoring and troubleshooting capabilities. EMMS also continuously monitors all critical systems, preventative maintenance, and provides trouble-shooting assistance to minimize diagnosis and repair time.

KOMTRAX The PC490/LC-11 is equipped with the latest KOMTRAX™ remote monitoring technology with data access via the web or via KOMTRAX™ Mobile on your smart phone. In addition to providing data such as fuel levels, operating hours, location, cautions and maintenance alerts, KOMTRAX™ is further enhanced to monitor AdBlue® levels, Komatsu Diesel Particulate Filter (KDPF) regeneration and now also provides fuel theft alerts, via 3G telecommunication. A new Operator Identification System reports key operating information for multiple operators and the new Auto Idle Shutdown function helps to lower operating costs.

KOMATSU CARE All Komatsu EU Stage IV machines come with Komatsu CARE®, a complimentary maintenance program for Komatsu customers. For the first three years or 2.000 hours it covers factory-scheduled maintenance, performed by Komatsu-trained technicians with Komatsu Genuine parts. Komatsu CARE® offers up to a maximum of 2 complimentary KDPF exchanges and a warranty for the first 5 years or 9.000 hours for the KDPF and Selective Catalytic Reduction (SCR).

“With Komatsu CARE®, customer peace of mind also comes as standard” says Jim Venerus, Deputy General Manager for Marketing. “This industry exclusive keeps your new EU Stage IV machine up and running, smoothly and efficiently, and gives truly unbeatable customer value”

Information in this news release is current on the date of the announcement and is subject to change without notice.

Notes:

- All comparisons are to the Komatsu model PC490LC-10.
- Komatsu CARE® and KOMTRAX™ are registered trademarks of Komatsu Ltd.
- AdBlue® is a registered trademark of Verband der Automobilindustrie.

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