

Komatsu Europe International N.V. Presents New HB365LC-3 Hybrid Excavator

A highlight at bauma 2016



Vilvoorde, April 2016 — Komatsu Europe International is pleased to present the new HB365LC-3, a high technology and environmentally sustainable 36 tonnes hydraulic hybrid excavator. It will be a highlight at the bauma 2016 international fair in Munich next April.

Compared to a standard PC360LC-11 excavator, the new Komatsu Hybrid excavator was designed to provide 20% fuel savings to customers. Today, KOMTRAX™ data from HB365LC-3 machines working in Japan since February 2016 show that Komatsu has reached this target.

Since 2008, when Komatsu commercialized the first hybrid construction equipment in the history of the industry, a total of 10,000,000 hours of operation have been registered by excavators benefiting from Komatsu's proven hybrid technology, which is today at work on over 3,500 units worldwide. The new HB365LC-3 hybrid excavator features an EU Stage IV engine and ultra-low noise levels, and it further reinforces Komatsu's strong commitment towards a substantial reduction of the environmental impact of earthmoving machines.

Cutting-edge technology

The HB365LC-3 has the same SAA6D114E-6 engine (202 kW / 271 HP) as the PC360LC-11, with up to 53kW extra electric power supplied by the revolutionary Komatsu Hybrid system.

The kinetic energy generated during the swing-braking phase is converted to electricity, which is sent through an inverter and captured by the Komatsu Ultra Capacitor. When accelerating under workload

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conditions the captured energy is discharged quickly for upper structure rotation and to assist the engine as commanded by the hybrid controller. The reserve power stored by the hybrid technology represents additional horsepower that is available to maximize machine performance by supporting the engine, or is used for swing power.

The highly durable Komatsu-developed and manufactured hybrid components are covered by a “5 year or 10.000 hours” special warranty. All machine components and the EU Stage IV engine are optimally controlled to match the work at hand and are coordinated through Komatsu's total vehicle control system to deliver exceptional fuel savings and a reduced carbon footprint with no compromise on machine performance

As all Komatsu excavators, the new hybrid machine has a high lift capacity and great stability, and swing performance is fast and powerful. Oil flow is optimized for quick movement in combined operations for increased productivity.

KOMTRAX™ telematics and Komatsu Care®, a complimentary maintenance program, offer top fleet management and support, protect the machine against misuse and guarantee maximum efficiency and uptime.

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 airflow rate, fuel injection, combustion parameters and aftertreatment functions, the Komatsu EU Stage IV engine optimises 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.

Enhanced comfort and ease of operation

The HB365LC-3 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 its optimized engine control and fun-clutch system, HB365LC-3 achieves ultra-low noise levels (100dB external / 68dB internal), lower even than on the HB215LC-2.

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 thanks to an auxiliary input. The cab also has the benefit of two 12-volt power ports for the operator's 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 utilisation 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 HB365LC-3 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 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 troubleshooting assistance to minimise diagnosis and repair time.

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 HB215LC-2 unless stated otherwise.*
- *Komatsu CARE® and KOMTRAX™ are registered trademarks of Komatsu Ltd.*
- *AdBlue® is a registered trademark of Verband der Automobilindustrie (VDA) e.V.*

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