

Komatsu PC210LCi-10 Hydraulic Excavator at Bauma 2016

With new integrated tilt bucket



Vilvoorde, January 2016 – The Komatsu PC210LCi-10 excavator was first presented at Bauma 2013, then officially launched on the European market in November 2014. It integrates Komatsu's unique intelligent Machine Control technology, a now proven concept that has penetrated markets worldwide with over 570 units delivered. The exclusive control function allows the operator to no longer worry about digging too deep or damaging a target surface. From rough digging to finish grading, the PC210LCi-10 excavator can dramatically improve efficiency, precision and safety on a work site.

“This latest Komatsu technology is a revolution in how hydraulic excavators will be used in the coming years” says Mal McCoy, Product Manager for Hydraulic Excavators and intelligent Machine Control Products. “The ability of the PC210LCi-10 to achieve and maintain grade with minimum effort from the operator is awesome”.

At Bauma 2016, the PC210LCi-10 machine control and guidance features will be demonstrated together with a new Komatsu tilt bucket. Necessary for PC210LCi-10 operators, (over 70% avg. usage in EU.), the new Komatsu tilt bucket allows to change the bucket angle in real time to match the design surface during Semi-Auto function. The bucket uses integrated stroke sensing tilt cylinders to determine accurate positioning. The flexibility of the PC210LCi-10 is greatly increased, allowing complex surface designs without the need to change the position of the machine constantly.

Operating weights of the PC210LCi-10 range from 22.620 kg - 23.480 kg, depending on the configuration, with a net 123 kW (165 HP) @ 2.000 rpm. Other specifications are identical to those for the Komatsu PC210LC-10.

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

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Innovative: Automatic Real Time Digging Control

With the world's first intelligent Machine Control excavator, the bucket is automatically limited from digging beyond the target surface. The control function maintains grade automatically, with real-time bucket edge positioning in relation to the machine and the job surface. Status is instantly displayed on the full colour, multi-function 12.1" control box monitor, eliminating the wait time associated with conventional sensors.

Integrated: Standard Factory Installed Integrated Machine Control System

Factory installed, Komatsu's fully integrated intelligent Machine Control system includes stroke sensing hydraulic cylinders for the boom, arm and bucket, newly developed by Komatsu for precise real time bucket edge positioning. The IMU (Inertial Measuring Unit) gives precise machine orientation and determines machine angle from gyro and accelerometer data. High performance antennae send satellite signals to a GNSS receiver that processes them and provides real time position of the machine.

Intelligent: Enhancements for Optimized Performance

The Komatsu PC210LCi-10 intelligent Machine Control excavator lets the operator focus on moving material efficiently, with no worry about digging too deep. The touch screen control box monitor, makes grading easy and accurate with a facing angle compass, a light bar and audio guidance. Information such as real-time "as-built" status, a magnified fine grading view or a 3D bird view can be displayed simultaneously.

By setting 3D design data on the control box monitor, staking can be reduced or eliminated, as can surveying and final inspection. Safety is greatly improved, with less people needed on the job site and near the machine.

Benefits

The unique benefits of Komatsu's intelligent Machine Control system on the new Komatsu PC210LCi-10 excavator are summarized by an outstanding improvement in productivity. This is achieved by consistent accuracy when rough digging, and by completing final grade automatically in just one pass. Cycle times and operator performance are thus improved with a reduced risk of error, and lower costs for fuel, labour and increased machine utilisation.

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