

Komatsu Europe International N.V. Introduces New PC230NHD-11 Excavator

Narrow Heavy Duty - Powered by a Komatsu EU Stage IV Engine



Vilvoorde, November 2016 — Komatsu Europe International N.V. introduces the PC230NHD-11 hydraulic excavator to the European market. This new excavator further leverages Komatsu's leadership in technology and innovation with a more environmentally-friendly EU Stage IV Komatsu engine (up to 15% more fuel efficient), larger boom cylinders, a narrow design for easy transport, a heavy duty undercarriage and enhanced serviceability. Efficiency and productivity are maximized and operating costs reduced.

Built on a solid foundation initiated in 1996 with the introduction of the first Komatsu Stage I engine, Komatsu's EU Stage IV engines are productive, dependable and efficient. The PC230NHD-11 offers up to 28% higher lifting performance and further improves on the stability and power of previous Komatsu models, with a net 123 kW (165 HP) @ 2.000 rpm, and an operating weight of 23520 kg.

“This new narrow excavator, with a heavy duty undercarriage, does so much more than simply meet EU Stage IV emission regulations” states Paul Dickinson, Product Manager at Komatsu Europe International. “It offers significant advances in fuel consumption, provides 3G communications, increases operator comfort and includes new safety features along with improved performance in lifting, grading and truck loading as well as high ground clearance whilst keeping the narrow width for transport.

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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Komatsu EU Stage IV emission certified engine – Productive, dependable, efficient

The Komatsu EU Stage IV engine integrates Selective Catalyst Reduction (SCR) with a Diesel Particulate Filter (DPF), 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 Variable Geometry Turbocharger (VGT) 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 telematics system.

Highly efficient hydraulic system

All major components on the new PC230NHD-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 which has taken 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. Additional enhancements have been made within the hydraulic system to reduce hydraulic loss, resulting in better efficiency.

Operator environment

The PC230NHD-11 cab provides a comfortable and quiet work environment that helps operators maximize productivity. Proportional control joysticks are fitted as standard for the precise operation of attachments. The cab is mounted on viscous isolation dampers for low vibration levels. ROPS certified, it is specifically designed for hydraulic excavators and gains strength from a reinforced box structure framework

A Neutral Detection System further improves safety: if the work equipment levers are not in a neutral position when the lock lever is released, the machine is prevented from any movement. The standard air suspension high back seat has newly designed fully adjustable armrests for improved comfort. In addition to the standard radio, external devices to play music through the cab speakers can be connected to an auxiliary input, and two 12-volt power ports are also included.

A high-resolution 7" LCD colour monitor features enhanced capabilities and shows information on AdBlue® fluid level, Eco guidance, operational records, fuel consumption history and utilization data. Text can be displayed in 26 languages for global support. The operator can easily select up to six working modes to match machine performance to the application. The standard rear-view camera gives a wide landscape view of the area directly behind the machine, and the new monitor panel's default screen shows the camera image as well as gauges. An optional second camera is available.

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Convenient maintenance and serviceability

The PC230NHD-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 radiator and hydraulic oil coolers are mounted side by side, making it easier to maintain and service when required and the viscous fan clutch system varies the speed of the fan so that it produces the required amount of cooling.

The enhanced diagnostic features of Komatsu's exclusive EMMS (Equipment Management Monitoring System) on the PC230NHD-11 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.

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 PC230NHD-8.
- Komatsu CARE® and KOMTRAX™ are registered trademarks of Komatsu Ltd.
- AdBlue® is a registered trademark of Verband der Automobilindustrie.

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