

Liebherr Components at the 2013 Bauma

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The Components division of the Liebherr Group has its own stand at the 2013 Bauma, (Stand A4/115 in Hall 4). The exhibits from the mechanical, hydraulic and electrical drive systems areas have been developed and manufactured at various Liebherr competence centres, and demonstrate the exceptional bandwidth of the division's product programme.

Common-rail fuel injection systems from Liebherr

A highlight on the Components stand are the new common-rail fuel injection systems, with their own engine-management control units. These systems are already standard equipment on Liebherr engines with between four and twelve cylinders, but can be adapted for use on other manufacturers' diesel engines. Liebherr common-rail systems are notable for exceptionally low fuel consumption and efficient combustion, both factors that reduce exhaust emissions.

New generation of diesel engines

At this year's Bauma, trade and other visitors will be able to see for the first time the latest generation of Liebherr diesel engines that comply with the EU stage IV / EPA Tier 4 final exhaust emission limits that come into force in 2014. Liebherr uses Selective Catalytic Reduction (SCR) only on these engines, an innovative technology that makes particulate filters unnecessary.

LiView: a hydraulic cylinder position measuring system

Also to be seen at the Bauma is LiView, an innovative electro-hydraulic system for the precise, reliable position measuring of hydraulic rams and cylinders in all size categories. The actual position is determined to an accuracy that can be as high as +/- 1 mm. LiView is strongly built and therefore suitable for installation on construction machinery and mining equipment. Based on the position data detected by LiView, construction machines' movement sequences can be automated and their performance potential and ease of control greatly enhanced.

Control system for small mobile machines

In the electronics area, Liebherr is exhibiting a control system for small mobile machines. The system consists of a compact control unit – a new development – with display, keypad and camera. It is a modular system based on familiar industrial standards, and is suitable for construction, agricultural and forestry machines and also for road construction machinery and communal vehicles on which high standards of freedom from vibration and shock together with resistance to temperature changes and contamination have to be complied with. The display can be supplied with a multi-image function capable of showing signals from up to four cameras simultaneously.

New series-production driveline components

In the hydraulic pump and motor, large anti-friction bearing and transmission areas, a notable development is the new series-production range of travel-gear drives (FAT) with hydraulic motors. This series, developed and manufactured by Liebherr itself, consists of eleven transmissions in successive sizes, from FAT 325 to FAT 1600; they are available in crawler-crane or crawler-excavator versions. The corresponding Liebherr hydraulic motors of axial-piston type, with swashplate pitch adjustment, are supplied with these units and matched optimally to them. They ensure high levels of overall efficiency within compact dimensions, and an excellent power-to-weight ratio.

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