

Liebherr Components presents new product developments at Agritechnica 2015

Nussbaumen (Switzerland) November 2015 – Liebherr will present its innovative component solutions for agricultural and forestry machines as well as biogas and combined heat and power plants to visitors at the world's largest agricultural technology exhibition, Agritechnica 2015, in Hanover from 8 to 14 November.

The components division of Liebherr is exhibiting numerous innovative components at stand D17 in Hall 17 at this year's Agritechnica. The items on display from the areas of mechanical, hydraulic and electronic drive technology, which have been developed and manufactured in various competency centres of the division, underline the extraordinary scope of Liebherr's product portfolio in this area.

Product launch: Hydraulic medium pressure pump

A newly developed axial piston pump of swash plate design complements the existing product portfolio in the medium pressure range and is ideally suited for use in mobile machinery. The pump for open circulation has a delivery rate of 45 cm³ per revolution and at the time of the market launch can be configured with two of the most common controls. The pump can be used in various applications in the agricultural and forestry area.

Diesel engines for stage V

Liebherr presents the innovative SCRFilter for complying with the emissions standards of the future stage V. This is already installed in machines for tunneling, certified for stage IV and the Swiss market and complies with the planned regulations of stage V. The SCRFilter is part of the Liebherr modular system in the engines area and is therefore compatible with all engines in the D93, D94 and D95 series. These engines have the same performances, machine cooling system requirements and the same interfaces during installation for the emission standards IIIA/IV and now also stage V. The simple replacement of the engine allows the customer to use the same machine design for various emission standards.

New generation of the common rail injection system 11.2

The new generation of the common rail injection system 11.2 by Liebherr is another new product being unveiled at Agritechnica. This is distinguished by the fact that a continuous rail is used also for in-line engines instead of individual pressure accumulators. Together with a modified engine control unit, this system configuration is ideal for heavy-duty on-road applications. The injection system has not only been configured to comply with the on-road EURO V and EURO VI emissions standards, but also for the current off-road emissions standards. The common rail system 11.2 is suitable for engines of up to three litres capacity per cylinder with a total power output of up to 800 kW.

Reman program from Liebherr now also available for gas engines

For a number of years Liebherr has been offering efficient remanufacturing solutions for used drive components with its Reman program. The current portfolio of diesel engines, hydraulic components, gearboxes and axles is now being complemented with gas engines. For gas engines, too, there are three different and optimally harmonised levels available for exchange components, general overhaul and repair services. This makes customised maintenance possible and significantly enhances the service life for power units of any age.

Electric travel drive

For the first time Liebherr also presents a travel drive for crawler and tracked vehicles with an electric motor. The ideal solution of frequency converter, permanent magnet motor, electric brake and planetary gearbox enables high torques with low weight and minimum space. It is, therefore, perfect for mobile vehicles also requiring road approval. The low-maintenance and service-friendly design leads to low operating costs.

Industrial Electronics

A system solution especially for mobile machinery consisting of compact control unit, digital camera and display rounds off the exhibits. Liebherr's freely programmable compact control unit ensures customer-specific safety functions up to performance level

“d”. The very robust thermo-design housing satisfies the high requirements of protection class IP6K9K (dust-proof and protection against water with high-pressure/steam cleaning). Customers receive a perfectly coordinated system in combination with the easy-to-integrate camera and the multi-touch display with direct sunlight viewing. The camera can also be used in extreme conditions, for example, at temperatures as low as -40°C.

Captions

liebherr-application-examples-300dpi.jpg

Application examples for gas and diesel engines, hydraulic and electronic components by Liebherr

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