

Medium Pressure Pump added to Liebherr Hydraulic Portfolio

- New medium pressure pump LH30VO with 45 cm³ for 280 bar nominal pressure and up to 320 bar maximum pressure
- Gradual extension of available sizes and controls

Shanghai (China), 22 November 2016 – Liebherr component division presented at Bauma China 2016 in Shanghai the newly developed LH30VO axial piston pump of swash plate design. The medium pressure pump complements the existing product portfolio in the range of 280 bar nominal pressure and is suited for use in mobile machinery. The pump for all mobile applications with open circulation has a specific delivery rate of 45 cm³ per rotation and is already available with two of the most common controls.

Production-optimised design

The new medium pressure pump LH30VO for open circulation is distinguished by its compact and dynamic housing design. The design and production process were closely coordinated. High efficiency levels are thus possible with the use of new procedures in the rotary group area. Several patentable solutions contribute to an optimised production and assembly process. Not only current market requirements, but also experience in the high-pressure pump area, were taken into account during the development.

Controls and sizes according to customer requirements

Since the market launch, the LH30VO is fitted with two controls – an electric proportional pressure control with negative characteristic curve (DE) and a Load-Sensing control (LS-DA), i.e. a pressure cut-off or pressure restriction. The swash plate adjustment is extremely precise and robust. More controls are gradually being added, whose priority is determined by customer requirements. A proportional volume control (VE), a power control (LR) and an electronic pressure control with positive characteristic curve are envisaged. The pump was designed as a modular system right from the start. Larger and smaller sizes will be added to the currently available size of 45 cm³ delivery volume for

each rotation. Here Liebherr also responds flexibly to customer requirements. Further important parameters are, for example, the maximum speed of 3,000 revolutions per minute in the standard version. A 130% through-drive option is another notable highlight. Years of experience for applications in mobile machinery.

Years of experience in applications for mobile machinery

Liebherr has already been producing hydraulic pumps and motors since 1978, up to now primarily in the high-pressure pump area from 400 bar. The product portfolio is constantly being expanded. With the new medium pressure pump, Liebherr-Components is responding, on the one hand, to the needs of the Liebherr Group. On the other hand, the company opens up further customer potential on the international market as a flexible provider of hydraulic components. The LH30VO is mainly designed for applications in mobile machinery. It is suitable for excavators, wheel loaders and many other construction machinery – for example, as a steering pump, fan drive or as a drive for equipment cylinders.

Captions

liebherr-axial-piston-pump-lh30vo.jpg

The new medium pressure pump LH30VO is distinguished by its dynamic and compact housing design.

liebherr-axial-piston-pump-lh30vo-back.jpg

The LH30VO has a through-drive option of up to 130% as standard. A DE- and a LS-DA control are available at the time of the market launch.

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