

Liebherr enhances its hydraulic components portfolio

- Liebherr is a hydraulic system supplier
- Energy-efficient hydraulic power units suitable for an extremely wide range of applications
- New hydraulic cylinder series for pressures of up to 350 bar introduced for heavy-duty applications

Munich (Germany), 11 April 2016 – Liebherr expands its hydraulic components portfolio by energy-efficient hydraulic power units and a new hydraulic cylinder series-production range for pressures of up to 350 bar. The Liebherr Group will, thus, offer its customers further cost-effective and efficient system solutions in this sector. Liebherr will present the latest hydraulic products at the Bauma 2016 in Munich in Hall A4.

From a component to a system supplier – Liebherr also adopts this approach in the hydraulic components sector. For the new hydraulic power units Liebherr relies on components from its own production sites. The benefit: They are perfectly matched together, forming a particularly efficient unit. For different applications the hydraulic power unit portfolio covers drive power between 0.75 kW and 75 kW, and filling volumes of six to 2,000 litres. The flow volume lies between 0.2 l / min and 500 l / min at an operating pressure of 350 bar. The hydraulic power units can also be combined with further components, such as sensor technology or a control system.

One of these hydraulic power units is currently being used in the construction of the Lakhta Center in Saint Petersburg: Four Liebherr tower cranes are supporting the construction of the 400 m high structure, which will be the tallest building in Europe, when completed. For the climbing mechanism of the 357 HC-L tower crane, Liebherr uses its own hydraulic system, consisting of a hydraulic cylinder and a hydraulic power unit. Thus equipped, the crane will climb up inside the building evenly "by itself" to a tower height of 70.7 m.

Hydraulic cylinders for heavy-duty applications

Another product innovation in the components sector is the hydraulic cylinder series-production range for heavy-duty applications at pressures of up to 350 bar. The double-acting differential cylinders are used in excavators and in the industrial sector. The product line includes 20 different piston diameters, each of which can be combined with one of two piston rod diameters.

To seal these cylinders Liebherr applies an innovative dual sealing concept comprising a primary and a secondary seal. This reduces the "stick-slip" effect, prevents leakage and makes the cylinders particularly low-maintenance. Due to a wide range of optimised piston rod coatings, Liebherr hydraulic cylinders can be use in various environmental conditions.

The standardised selection of single components allows a large number of different hydraulic cylinders to be combined flexibly – while being quickly available at cost-effective conditions. In addition to the standard solutions, Liebherr also offers customised cylinder variants in accordance with customer requirements.

Captions

liebherr-hydraulic-power-unit.jpg

Customised hydraulic power units by Liebherr

liebherr-hydraulic-cylinders-attachment.jpg

New series-production range hydraulic cylinders at pressures of up to 350 bar

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