Press Release

High performance flow sharing for mini excavators
New Rexroth RS15 flow sharing (LUDV) main valve improves performance and energy efficiency

The new Rexroth RS15 flow sharing control block for mini excavators features an increased flow capacity of 30 percent, while significantly reducing energy wasting pressure losses.

An “upwards spiral” could be an appropriate term to describe the current trend in the market for mini and compact excavators. The higher their performance and versatility, the wider their field of operation, which in turn leads to higher requirements from end users in terms of productivity and fine control. Rexroth supports this dynamic development with its new RS main valves for flow sharing system design (LUDV), which further enhances performance and controllability, while at the same time answering the ever louder calls for higher fuel efficiency and lower operating costs. At bauma China 2014 the company presents the new size 15 of its RS valve platform.

The RS control block platform is the successor of the SX series from Rexroth, which pioneered flow sharing (LUDV) in the mini excavator market, raising the share of this technology from five to approximately 50 percent in the last 15 years. Compared to the successful SX14 valve, the new Rexroth RS15 features an increased flow capacity of 30 percent, while significantly reducing energy wasting pressure losses. The maximum operating pressure is 350 bar. With these specifications, the RS15 covers the requirements of excavators from nine to twelve tons.

Like its predecessors, the new RS valves are designed to harmonize perfectly with axial piston variable pumps from Rexroth such as the A10VO or A7VO.
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This combination allows OEMs to fully exploit the benefits of the LUDV design in terms of energy savings, machine performance and cost efficiency.

The RS12 main valve, which is suitable for excavators from three to seven tons, has successfully been implemented by a number of Chinese OEMs. It significantly improves machine performance and reduces fuel consumption by up to 15 percent. With the new RS15, the RS control block platform from Rexroth now meets the application requirements of excavators from three to twelve tons.

In addition to valves blocks and axial piston pumps for flow sharing (LUDV) systems, Rexroth also offers a wide range of radial piston motors for slewing and travel drive, as well as hydraulic and electronic joysticks and compact hydraulics valves.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, Factory Automation, and Renewable Energies to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, roughly 36,700 associates generated sales revenue of approximately 5.7 billion euros in 2013.

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