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EDH Compact Directional Valves from Bosch Rexroth enhance efficiency and performance in mobile working machines

Manuela Kessler | 26.09.2023 | Lohr am Main / Germany | PI 052/23



Innovative EDH valve enhances efficiency and performance in mobile working machines. (Image source: Bosch Rexroth AG)

Current market trends are driving the demand for compact and powerful solutions for mobile machines: Increasingly complex machine designs, diverse functions and applications pose a variety of challenges for mobile machine manufacturers. For this purpose, Bosch Rexroth offers the EDH Compact Directional Valve, a compact and powerful solution with high flow capacity.

With a powerful flow capacity of up to 100 l/min, the Compact Directional Valve offers enhanced functionality and performance for a wide range of applications such as drilling machines and cranes, construction equipment, mobile elevating work platforms, self-propelled or trailed agricultural machinery as well as municipal vehicles like garbage trucks and sweepers.

Modularity for optimized solutions

The EDH features a modular design that seamlessly integrates with the Compact Directional Valves of Bosch Rexroth's product line. It includes compatibility with the new-generation pre-compensated EDG valves and enables customized solutions tailored to meet individual customer requirements. With its compactness and power density the EDH sets new standards. At the same time, it offers maximum flexibility and adaptability to control diverse machine functions.

Rising demand for high flow capacities

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A heavier workload on mobile working machines requires high flow capacities. The EDH's flow capacity of up to 100 l/min ensures that machines can handle heavy-duty applications with ease. This increases productivity and reduces cycle times in critical mobile machines, but also in industrial applications.

Low space requirements in mobile applications

With the need to fit more functionality into compact machines, installation space is scarce. The EDH's compact design enables seamless integration into space-constrained environments. By effectively utilizing limited space, companies can enhance efficiency and realize the full potential of their machines.

Versatile possibilities

The EDH Compact Directional Valve provides companies with diverse possibilities to tailor hydraulic systems to specific application needs. A precise engineering and durable construction provide high reliability, reduce maintenance costs and minimize downtime.

"Its impressive flow capacity, modular design, and compatibility with Bosch Rexroth's Compact Directional Valves enables manufacturers to increase the efficiency and productivity of their applications and map new trends and challenges," summarizes Luca Zanichelli, Product Manager Compact Directional Valves at Bosch Rexroth.

Bosch Rexroth at Agritechnica: Hall 16, Booth A08.

Basic Information Bosch Rexroth

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries more than 32,000 associates generated sales revenue of around 7.0 billion euros in 2022.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is

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to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is “Invented for life.” The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch’s global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company’s future growth is its innovative strength. At 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

Press Contact

Please get in touch with our Press Contact



Manuela Kessler

Spokesperson
technology topics
+49 9352 184145

Manuela.Kessler@boschrexroth.de