

PRESS INFORMATION

CytroPac: The next generation of intelligent hydraulic power units: compact, connected, and energy-efficient

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Following customer-centric further development, Bosch Rexroth's intelligent compact power unit is now even more practical and, with new options, covers a wider range of applications



The second generation of the intelligent CytroPac 2X compact hydraulic power unit sets new standards in productivity, energy efficiency, and ease of use. (Image source: Bosch Rexroth AG)

In close alignment with its customers, Bosch Rexroth has further developed the intelligent CytroPac compact hydraulic power unit. The new generation expands its area of application with optional functional modules. Integrated sensor technology and connectivity options simplify monitoring to ensure maximum system availability. Additionally, the plug-and-play solution features a new cover with status indicator. The optimized motor-pump combination enhances energy efficiency.

The CytroPac compact hydraulic power unit from Bosch Rexroth combines unmatched power density with energy efficiency and a new level of operating convenience. To better meet market demands, Bosch Rexroth has further developed the new generation of the intelligent compact hydraulic power unit based on customer feedback.

For instance, the interchangeable function modules enhance flexibility in practical applications: In addition to the filter module for cleaning the return flow, the CytroPac is optionally available with a leakage oil module, which returns larger volume flows with almost no pressure and significantly reduces air ingress. As another option, Bosch Rexroth offers a valve module for attaching manifolds. This allows hydraulic control functions to be implemented quickly and easily via multistation manifolds. Thanks to its modular concept, the second generation of the compact hydraulic power unit is ideally suited for machine tools, plastic injection molding, and similar

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applications. For the North American market, a UL-certified variant is available that meets the safety requirements of Underwriters Laboratories (UL).

Technical innovations include improved heat exchange through a specialized aluminum cooling plate. The integrated frequency converter often eliminates the need for a control cabinet, significantly simplifying engineering. The integrated motor-pump assembly has also been optimized: Compared to conventional small hydraulic power units with the same power output, up to 80% of the energy requirement can be saved while achieving significantly quieter operation.

New in the area of connectivity is an MQ15 Ethernet port for data exchange, with the M12 power connection now being standard. Thanks to integrated sensor monitoring, temperature and fluid level values can be continuously read via fieldbus for extended monitoring. The intelligent maintenance solution CytroConnect Solutions enhances availability through real-time monitoring, data-based analysis, or predictive maintenance.

The operating concept, featuring a wizard for easy commissioning, has been expanded to include a new cover with an optionally integrated HMI for status display. This enhances the operating convenience of the plug-and-play product solution, which is delivered pre-assembled and tested.

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, around 32,600 associates generated sales revenue of 6.5 billion euros in 2024.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 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. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development.

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