Press Release

Bosch Rexroth to exhibit drive and control systems for semiconductor production at SEMICON West 2017

Drive and control company to exhibit the latest technology in Industry 4.0, advanced motion control, integrated measuring system, precision automation and linear motion systems.

Rexroth will showcase several advanced drive and control systems, including the IoT Gateway, in booth 5760 at SEMICON West 2017.

Bosch Rexroth will share its automation technology portfolio and expertise in Industry 4.0 and semiconductor manufacturing during SEMICON West 2017, July 11-13, 2017, at Moscone Center in San Francisco, CA. The drive and control company will exhibit at booth 5760.

Bosch Rexroth is set to exhibit several advanced drive and control systems during SEMICON West 2017 in San Francisco, CA, July 11-13, 2017. During the conference, Rexroth will demo the latest technologies in Industry 4.0, advanced motion control, integrated measuring systems, and linear motion systems, including the NYCe 4000 motion control platform, wafer handling technology, the XDK sensor and more. Rexroth will also demonstrate the IoT Gateway, a precisely coordinated combination of control hardware and
software that allows easy connection between Industry 4.0 environments without intervening in the automation logic.

Visitors should make sure to check out the IoT Gateway—the latest technology in the Industry 4.0 movement. Highlights include:

- The **IoT Gateway** is designed for implementing IT applications and sensor and process data, transmits it to MES, cloud applications or local machine state monitoring systems, enabling process data analysis.
- The modular software concept of the **IoT Gateway** is based on Linux, Java apps and open interfaces. It makes your machine and process data more transparent, while monitoring energy-related data makes it possible to shut down plant components and optimize the energy balance.
- The **IoT Gateway**'s unique combination of control hardware and software quickly and flexibly connects machines to Industry 4.0.
- The **IoT Gateway** is concurrently featured with the XDK sensor from Bosch.

In addition, Rexroth will demo new technologies aimed toward the automation industry and designed to optimize equipment efficiency:

- The **NYCe 4000 motion control system** is now even more powerful! NYCe 4000 boasts a new control engine that enables applications to run onboard the integrated Linux platform, allowing it to meet complex requirements and maintain easy operation.
- The **IMS-I (incremental) and IMS-A (absolute) integrated measuring systems** combine highly rigid Rexroth ball rail and roller rail systems with a non-contact length measuring system. Offering measurement accuracy comparable to that of high-precision glass scales, both systems offer simplified design with components completely integrated into the linear guide and no attachments required.
- Rexroth's **wafer handling technologies** are expertly designed to balance high-dynamic servo drives, high rigidity linear subsystems and pneumatic actuators. Rexroth’s wafer handling solutions reduces idle time and standardizes handling throughout your front-end operations. Vibration is prevented by pre-defined algorithms in the motion control system and enables higher-order motion profiles and spline functions.
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- Rexroth’s **linear systems** offer a wide range of standard catalog modules with different drive options including ball screws, belts and linear motors. Ready-to-mount, precise and highly proficient, custom system capabilities allows the ability to design and integrate core Rexroth products into a pre-existing motion system built for specific application needs.

With several hundred process steps and movements in the nanometer range, semiconductor production requires utmost precision. Rexroth’s drive and control portfolio delivers on those requirements, while maintaining an active role in the Industry 4.0 movement. The company's global engineering and application teams provide process-specific expertise to help customers develop scalable and integrated multi-technology systems and optimize their facilities with Industry 4.0 technology. From jerk-free slow movement to high-speed positioning, Rexroth helps semiconductor process and inspection tool manufacturers master their drive and control challenges.

Bosch Rexroth products and automation technology experts will be available at SEMICON West 2017 in booth 5760. For more information, visit [www.boschrexroth-us.com/semicon](http://www.boschrexroth-us.com/semicon).

**About Bosch Rexroth**

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, and Factory Automation 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, more than 29,500 associates generated sales revenue of approximately 5 billion euros ($5.5 billion) in 2016.

To learn more, please visit [www.boschrexroth.com](http://www.boschrexroth.com)

**About Bosch**

Having established a regional presence in 1906 in North America, the Bosch Group employs nearly 32,800 associates in more than 100 locations, as of December 31, 2016. In 2016 Bosch generated consolidated sales of $13.7 billion in the U.S., Canada and Mexico. For more information, visit [www.boschusa.com](http://www.boschusa.com), [www.bosch.com.mx](http://www.bosch.com.mx) and [www.bosch.ca](http://www.bosch.ca).
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The Bosch Group is a leading global supplier of technology and services. The company employs roughly 390,000 associates worldwide (as of December 31, 2016) and generated sales of 73.1 billion euros ($80.9 billion) in 2016. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected industry. 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 to create solutions for a connected life, and to improve 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 440 subsidiaries and regional companies in some 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 120 locations across the globe, Bosch employs 59,000 associates in research and development.


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