

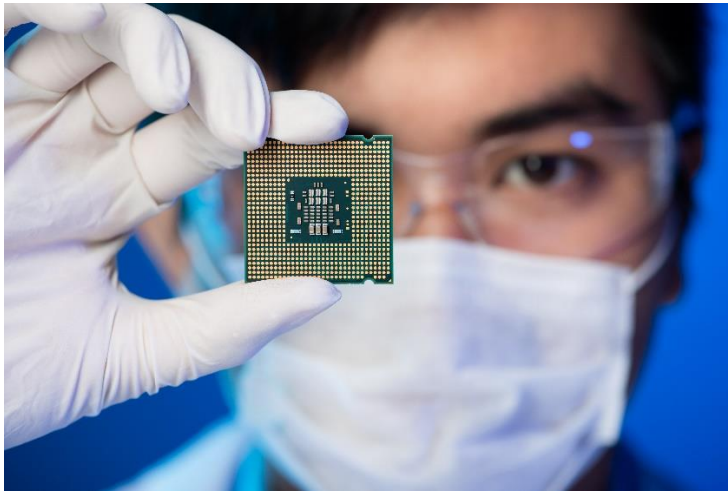
Press Release

Bosch Rexroth to showcase Now, Next and Beyond automation technology at SEMICON West 2019

Located in booth 539, Rexroth will demonstrate advances in automation control, mechatronics, linear motion and Industry 4.0 technology for wafer handling and other semiconductor manufacturing processes

DC19011
6/20/2019

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July 9, 2019



Rexroth offers one of the world's largest automation technology portfolios to enable greater efficiency, precision and quality production in semiconductor manufacturing systems.

Presenting an array of advanced automation technologies from its industry-leading portfolio, Bosch Rexroth will share its Factory of the Future insights and expertise for semiconductor manufacturing in booth 539 during SEMICON West 2019, July 9-11, 2019 at the Moscone Center in San Francisco, CA. The company will have booth exhibits demonstrating cutting-edge automation technologies for Now, Next and Beyond, including a maglev transport system.

Come discover how Bosch Rexroth is deploying innovative technology to help bring advanced Factory of the Future/Industry 4.0 concepts to life for the semiconductor industry.

Bosch Rexroth will present multiple exhibits and interactive demonstrations from its technology portfolio to help improve semiconductor manufacturing yields. These include advanced motion control platforms and high-performance linear motion systems that are currently available, plus previews of new products slated for launch in the near future, along with an opportunity to experience future cutting-edge systems such as a maglev-based wafer transport system.

Key product highlights and demonstrations in the Rexroth booth will include:

Contact for Journalists:
Bosch Rexroth Corporation
Susan Strauss
2315 City Line Road
Bethlehem, PA 18017
Telephone (610) 694-8352
susan.strauss@boschrexroth-us.com

Godfrey
Todd Walter
40 N. Christian Street
Lancaster, PA 17602
Telephone (717) 945-1893
twalter@godfrey.com

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- A new magnetic levitation transport concept designed to move wafers in a vacuum, both within tools and between tools. This new platform can rotate 360 degrees with six-axis control for rotation, pitch and yaw of the wafer transport, including the ability to move up to 20 millimeters in the Z direction.
- A wafer spin and lift demonstration that shows how Rexroth integrates high-speed spindle performance and vertical lift into one complete mechatronic assembly
- The IMS Compact, the latest addition to the Rexroth family of integrated measuring systems for linear motion, combines a highly rigid Rexroth ball rail and roller rail system with a non-contact length measuring system. The IMS Compact integrates the sensor read head into the rail system runner block to save space and provide a more compact configuration for tight profiles.
- Rexroth's state-of-the-art, user-friendly digital linear motion eTools which enable engineers to plan, design and order linear motion systems more effectively, including new configurators for runner blocks and precision steel shafts of linear bushings

Visitors will also learn how Bosch Rexroth is "taking linear technology digital" with its Digitalization of Linear Technology demo. This interactive presentation shows how Rexroth is creating smarter linear products and digital solutions that can be used to optimize processes, predict wear sooner and provide virtual digital support throughout the entire product life cycle, from engineering and commissioning to preventive maintenance and technical service.

The Rexroth booth also features the informative I4.0 Cube, a four-sided, interactive touchscreen that showcases the company's Connected Automation Solutions such as the IoT Gateway. Using the I4.0 Cube, visitors can explore a variety of I4.0 topics directly from the display.

In addition, Rexroth semiconductor manufacturing experts will be available to discuss solutions for key issues such as wafer transport, motion control and automation to help improve performance and yield as the semiconductor industry continues to evaluate technology for future node development.

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For more information, go to www.boschrexroth-us.com/semicon or visit Rexroth at booth 539 at SEMICON West 2019.

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About 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 Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions 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 32,300 associates generated sales revenue of roughly 6.2 billion euros (\$7.3 billion) in 2018.

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To learn more, please visit www.boschrexroth-us.com.

About Bosch:

The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). According to preliminary figures, the company generated sales from operations of 77.9 billion euros (\$92 billion) in 2018. 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 manufacturing. 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 deliver innovations for a connected life. 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 440 subsidiary and regional companies in 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 125 locations across the globe, Bosch employs some 69,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPresse](https://twitter.com/BoschPresse).

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