

PRESS RELEASE

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Bosch Rexroth presents complete factory automation technology at The ASSEMBLY Show SOUTH 2023

Moving technology demos and informative exhibits highlight the broad range of automation technologies for assembly applications at The ASSEMBLY Show SOUTH 2023 in Nashville, TN



Demonstrations and booth presentations covering multiple Bosch Rexroth automation technologies will be featured at The ASSEMBLY Show SOUTH 2023, including the new Smart Flex Effector and autonomous mobile robots for assembly automation.

Experience Bosch Rexroth's complete automation capabilities in person at the inaugural ASSEMBLY Show SOUTH. Bosch Rexroth will showcase automation technology from its broad portfolio that works harmoniously in assembly applications in booth 503 on April 4-6, 2023, in Nashville, TN.

At the booth, attendees will have the opportunity to see how Bosch Rexroth brings together a harmonized combination of advanced hardware, software and engineering to create complete factory automation solutions that are smart, sophisticated and simpler than past solutions.

The booth will include interactive exhibits and working systems demos. Featured will be the recently launched Smart Flex Effector — a sensor-based compensation module with independent kinematics — as well as a state-of-the-

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art three-axis Cartesian robot that handles material with precision and minimal additional resources.

Booth visitors will be able to consult with Bosch Rexroth's factory automation experts to get strategic approaches and practical advice about how the company's technology can help them build smarter, more productive manufacturing solutions — and deliver those solutions with maximum speed and minimal complexity.

Key booth demos and highlights include:

Smart Flex Effector: The Smart Flex Effector is a sensor-based compensation module with independent kinematics in six degrees of freedom that is the first of its kind. It increases precision in handling devices and opens up new areas of application for robots and Cartesian systems.

The Smart Flex Effector is used in complex handling applications such as joining operations with micron-level tolerances, robotic teaching and in-process measuring, and provides movement flexibility that was until now unobtainable while solving a wide array of challenges that have troubled integrators for years.

Flexible Transport System: Watch the Flexible Transport System, powered by ctrlX CORE, enable transport and positioning for various steps in demanding assembly applications like battery manufacturing. The Flexible Transport System demonstrates a complete factory automation solution, featuring products across Bosch Rexroth's automation portfolio, including our TS 2 transfer system conveyors, ML3 synchronous linear motors with an iron core and the IndraControl YM.

MP1000R Autonomous Mobile Robot (AMR): This groundbreaking factory floor logistics robot can autonomously move without human intervention and uses a Laser SLAM-based technology to develop a “map” of paths/traffic lanes to deliver goods.

Our ROKIT Locator software allows the robot to continue to change the map and improve over time as the situation within the facility changes. The MP1000R autonomous mobile robot will simulate the transport of assembled materials at the end of line from a workstation to a custom pallet rack, both

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assembled with various components from Bosch Rexroth's aluminum framing portfolio.

ctrlX AUTOMATION: Our collection of kiosks illustrates the modularity and scalability of ctrlX AUTOMATION while presenting an overview of ctrlX DRIVE and ctrlX CORE hardware capabilities. On display is a three-axis ctrlX DRIVE linked to a ctrlX CORE control system running in real-time. Other components, such as ctrlX IO, ctrlX HMI and the MS2N synchronous motor, are also included.

Additionally, the exhibit demonstrates ctrlX IOT — a cutting-edge toolbox with integrated security, communication and data monitoring-analytics apps to meet all Industry 4.0 requirements. ctrlX IOT apps offer optimal flexibility for connecting different devices together across the manufacturing shopfloor (i.e., DeviceBridge). The option of fully integrating IoT solutions into the platform enables users unlimited possibilities.

Smart Function Kit for Handling: The kiosk includes a display that highlights features & benefits of the Smart Function Kit for Handling, combined with a working Cartesian multi-axis system whose configuration output can be created by booth visitors using an adjacent Bosch Rexroth eTools software demonstration. The exhibit will present how predefined multi-axis combinations can be easily sized, configured and ordered as one part number. Additionally, the Smart Function Kit for Handling software app running on ctrlX allows fast commissioning through auto parameterization of the servo drive.

For more information, visit www.boschrexroth-us.com/assemblyshowsouth. The ASSEMBLY Show SOUTH attendees are invited to visit booth 503 to learn more, directly from Rexroth's experts.

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 31,000 associates generated sales revenue of around 6.2 billion euros in 2021.

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 420,000 associates worldwide (as of December 31, 2022). According to preliminary figures, the company generated sales of 88.4 billion euros in 2022. Its operations are divided into four business sectors: Mobility Solutions, 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 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 440 subsidiary 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. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 85,000 associates in research and development, of which nearly 44,000 are software engineers.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPress.

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