

PRESS RELEASE

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Bosch Rexroth presents harmonized warehouse automation technology at ProMat 2023

Moving technology demos and informative exhibits highlight the broad range of warehouse automation technologies at ProMat 2023 in Chicago, Il.



Demonstrations and booth presentations covering multiple Bosch Rexroth automation technologies will be featured at ProMat 2023, including the new Smart Flex Effector and autonomous mobile robots for material handling.

Experience Bosch Rexroth's warehouse automation capabilities in person at one of the leading manufacturing and supply chain shows, ProMat 2023. Bosch Rexroth will showcase automation technology from its broad portfolio that work harmoniously in material handling applications at ProMat 2023 on March 20-23 in Chicago, Il.

Located in booth S4018, ProMat attendees will have the opportunity to see how Bosch Rexroth brings together a harmonized combination of advanced hardware, software and engineering to create complete warehouse 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-

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the-art 3-axis cartesian robot that handles material with precision and minimal additional resources.

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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. Used in complex handling applications, joining operations with micron-level tolerances, robotic teaching, performing in-process measuring, and providing movement flexibility that was until now unobtainable, the Smart Flex Effector solves a wide array of challenges that have troubled integrators for years.

M1000 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 locating 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 assembled with various components from Bosch Rexroth's aluminum framing portfolio.

ctrlX AUTOMATION: Our collection of kiosks illustrate 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 included. In addition, the exhibit demonstrates how ctrlX CORE supports modern languages for today's industrial machinery, such as Java, Python and Node Red, plus many other application-appropriate languages.

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Within the ctrlX AUTOMATION platform is ctrlX IOT, which enables efficient and secure connection in the IIoT. This progressive IoT toolbox features advanced security that meet the strictest I4.0 requirements and can fully integrate IoT solutions into hardware platforms.

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Smart Function Kit for Handling: The kiosk includes a presentation that highlights features & benefits of Smart Function Kit for Handling, combined with a working Cartesian multi-axis system whose configuration output can be created by booth visitors using 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. In addition, 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/promat. ProMat attendees are invited to visit booth S4018 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. 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 401,300 associates worldwide (as of December 31, 2021). According to preliminary figures, the company generated sales of 78.8 billion euros in 2021. 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

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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 76,300 associates in research and development, of which more than 38,000 are software engineers.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-presse.de, www.twitter.com/BoschPresse.

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