Bosch Rexroth Brings the Latest Connected Automation Technologies to IMTS 2016

The IMS-A integrated measuring system and the IndraMotion MTX are two of the technologies to be highlighted by Bosch Rexroth at IMTS 2016.

Bosch Rexroth is sharing their latest technologies and insights at IMTS. Throughout its booth (E-4854), attendees can explore the latest in connected technologies, from intelligent and scalable CNC controls to high-performance electric and hydraulic drives, to i4.0-enabling linear motion and software systems – all designed to improve the productivity and precision of automated machines. Bosch Rexroth will also demonstrate how data collected by today’s machines can add real value when connected through the cloud to big data analysis tools. Connected automation in manufacturing leads to a faster and more flexible production process, greater efficiency of material, and reduction of complexity and downtime. With a huge automation portfolio and production experience in its own manufacturing plants worldwide, Bosch Rexroth has leading expertise that can help companies benefit from i4.0 today.

CNC Controls: IndraMotion MTX
At the core of Bosch Rexroth’s CNC solutions is IndraMotion MTX. From the compact and affordable MTX micro with integrated CNC, PLC, drives, & IO, to MTX system controls scalable up to hundreds of axes, there is no equal. IndraMotion MTX provides powerful CNC control, with uniform software and integration, high channel/path count, 5-axis interpolation across the entire range and more - all coupled with easy-to-use HMI and engineering tools.

CytroPac
The CytroPac hydraulic power unit is a revolutionary Rexroth solution to the challenges of fitting power units into tight machine spaces. CytroPac is one of the most compact and versatile units available that supports hydraulic power up to 4 kW. All CytroPac functions are elegantly integrated in the smallest
space possible, in a low-noise package. The highly efficient Sytronix variable-speed drive intelligently adapts to the power required for a given duty cycle, yielding potential energy savings between 30% and 80% as well as reduced CO2 emissions.

**IMS-I and IMS-A**

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, inductive length measuring system. Both systems offer measurement accuracy comparable to that of high-precision glass scales, without the added complexity and cost of external mounting. The IMS-A is ideally suited for applications requiring highly dynamic and accurate absolute positioning in high-rigidity mechanical systems.

**IndraDrive MI – Cabinet-free Technology**

Rexroth offers a system solution that saves space, with maximum flexibility and efficiency: the new IndraDrive Mi, with its revolutionary cabinet-free power supply. This innovation eliminates drive electronics from the cabinet and lets machine builders mount a more compact controls enclosure directly to the machine, freeing up valuable floor space. The newest generation of IndraDrive Mi features additional safety functions, Sercos and Multi-Ethernet communication, intelligent control functions and an energy-efficient power supply, making it more useful and versatile than ever before.

**Integrated Axis Control**

Bosch Rexroth offers axis control with uniform functionality of distributed hydraulic axis control integrated into the valve (IAC) or for enclosure installation (HMC). Rexroth’s Multi-Ethernet integrated axis control for hydraulic motion platform with real-time capability allows you to openly choose from among key Ethernet protocols such as Sercos, EtherCAT, Ethernet/IP, PROFINET RT and POWERLINK. This, in turn makes it possible to flexibly connect the axis controller to higher level control networks, regardless of the control manufacturer. The control architecture remains intact while engineering effort and hardware adaptations become a thing of the past.

**I4.0 Live!**

Bosch Rexroth’s in-booth exhibit i4.0Live! demonstrates how Connected Automation and Industry 4.0 can make a difference in production today. The exhibit shows how machine data collected in an i4.0 environment can improve decision-making functions, prevent downtime and improve OEE.
Press Release

See Bosch Rexroth’s latest innovations at booth E-4854 during IMTS 2016, September 12-17, 2016, in Chicago. For more information, visit www.boschrexroth-us.com/imts.

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 31,100 associates generated sales revenue of approximately $5.99 billion (5.4 billion euros) in 2015. To learn more, please visit www.boschrexroth.com

About Bosch

Having established a regional presence in 1906 in North America, the Bosch Group employs some 28,700 associates in more than 100 locations, as of April 1, 2015. In 2014, Bosch generated consolidated sales of $11.3 billion in the U.S., Canada and Mexico. For more information, visit www.boschusa.com, www.bosch.com.mx and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 375,000 associates worldwide (as of December 31, 2015). The company generated sales of $78.3 billion (70.6 billion euros) in 2015. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. 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 and sales network covers some 150 countries. The basis for the company’s future growth is its innovative strength. Bosch employs 55,800 associates in research and development at 118 locations across the globe. 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.” Additional information is available online at www.bosch.com, www.bosch-press.com, twitter.com/BoschPresse

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