

PRESS RELEASE

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Expertise for more energy efficiency

Compact training system XITE Automax 102 from Bosch Rexroth prepares specialists simply and practically for the connected Factory of the Future



The new XITE Automax 102 training system from Bosch Rexroth is based on current series components for automation and imparts the necessary knowledge for connected production and a sustainable increase in energy efficiency. (Image source: Bosch Rexroth AG)

Climate change is one of the greatest challenges of our time. Intelligent concepts for sustainable management secure the future viability and competitiveness of companies. At the same time, many factories lack the skilled workers to digitally equip production facilities that are already installed, measure energy consumption and optimize it on the basis of data. This is where Bosch Rexroth comes in with its new XITE Automax 102 training system. It imparts important practical skills and knowledge for connected machines and stations. The systematic collection and evaluation of operating data creates the basis for optimizing energy efficiency and thus reducing CO₂ emissions from production.

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According to the industry association Bitkom, three quarters of all installed machines in Germany are not yet connected or equipped with smart technologies. One major impact: Machine users do not know which process steps consume how much energy and therefore have no starting points for improving energy efficiency. But this is exactly what more and more automotive and consumer goods manufacturers are demanding from their plants and suppliers. The simplest and most economical solution is to equip all machines with the appropriate sensors, connect them and systematically evaluate the data. The new XITE Automax 102 training system from Bosch Rexroth provides the necessary knowledge for this. Based on current series components for automation, the modular training system fits on any workbench as a “miniature learning factory”. The new training system incorporates the extensive experience Bosch plants have gained in introducing Industry 4.0 and projects to increase resource efficiency.

Even with the basic equipment, instructors and teachers teach important skills needed for connectivity in a practical way: Installing and commissioning sensors and network technology, signal output with PLC and forwarding by means of IoT gateway via OPC UA as well as processing the information in databases. Through various learning topics, users are enabled to optimize processes with the help of data analysis. The training system uses real machine parameters for data processing and analysis in the integrated PLC and thus realistically simulates everyday operation.

With the XITE Automax 102 training system, educational institutions and companies can acquire the necessary knowledge for connecting machines at low investment costs. This is the prerequisite for sustainable improvements in energy efficiency in production and thus makes a very practical contribution to a lasting reduction in CO2 emissions.

Bosch Rexroth training systems provide both beginners and advanced trainees with practical knowledge in the fields of hydraulics, electrical drive and control technology, mechatronics and pneumatics. They consist of workstations, the components contained in the equipment sets and exercise books.

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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 29,600 associates generated sales revenue of around 5.2 billion euros in 2020.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 395,000 associates worldwide (as of December 31, 2020). The company generated sales of 71.5 billion euros in 2020. 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 129 locations across the globe, Bosch employs some 73,000 associates in research and development, of which nearly 34,000 are software engineers.

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

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