Press Release

Real-world Industry 4.0 Training
Training courses, training systems and media from Rexroth help to prepare technical training and further education for Industry 4.0

The mMS4.0 training system illustrates the process steps of Industry 4.0 production.

**Experts all agree that Industry 4.0 will quickly and permanently change the work content in production and logistics. This also has an effect on the learning content and equipment for technical training and further education. The Bosch Rexroth Drive & Control Academy supports company and school-based instructors and universities by providing training courses, training systems and modern media on the topic of Industry 4.0.**

As a leading user, Bosch Rexroth has been implementing Industry 4.0 approaches in numerous pilot projects in its own plants for three years. On the basis of this experience, the specialists at the Drive & Control Academy have developed the training content that prepares school and university students and apprentices in production and logistics for working in networked environments.

In Industry 4.0 training, Rexroth gives instructors a solid introduction to the topic of networked production. Using concrete Industry 4.0 projects that have already been implemented in the Bosch Rexroth production network, the hands-on training courses show how working life will change in both the short
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and medium term. They highlight the new key qualifications that technical specialists will require in the future and which main points need to be dealt with in training and further education.

In addition, Rexroth has developed the mMS4.0 for universities and educational institutions – a training system for Industry 4.0, with which content can be taught practically. It incorporates all of the functions of a complete production system, including logistics. More cells can be flexibly added to the system, such as a 6-axis jointed-arm robot. The students program automation functions in high-level languages, use the RFID technology to implement workpiece-led production, and link the production data with ERP and MES systems such as SAP ME. The mMS4.0 training system is also suitable for learning basic skills in mechatronics and drive & control technology. The learning content expanded by Industry 4.0 has already been put into practice with the training system by various higher education institutions.

What's more, the Rexroth Drive & Control Academy offers modern e-training media for Industry 4.0, horizontal and vertical networking and the high-level language programming of automation systems. The animations and training videos practically illustrate typical applications of networked processes.

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 33,700 associates generated sales revenue of approximately 5.6 billion euros in 2014.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 375,000 associates worldwide (as of December 31, 2015). According to preliminary figures, the company generated sales of more than 70 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. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2015, Bosch applied for some 5,400 patents worldwide. 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.”
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