

Press Release

Modular, connected, interactive: The assistance system ActiveAssist is revolutionizing the manual workstation

The new software solution from Rexroth integrates sensor systems and guides employees intelligently through assembly

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- ▶ Connects physical assembly workstations to the world of IT
- ▶ Guarantees maximum process reliability in varied assembly tasks
- ▶ Allows easy start-up using starter kits for various expansion stages



The digital assistant for varied assembly tasks: The ActiveAssist software solution supports employees with targeted information and help functions and guarantees high process reliability.

Bosch Rexroth places the focus of Industry 4.0 on people: With the ActiveAssist assembly assistance system, Rexroth is combining its years of experience in the fields of lean production and ergonomic workstation design and is expanding on this with pioneering Industry 4.0 intelligence. At the heart of ActiveAssist is freely configurable software which connects physical assembly workstations to the virtual world. In combination with sensors, touchscreens, cameras and projectors, the comprehensive assistance system guides employees through the work steps with precision and makes varied assembly tasks down to batch size 1 a reality. ActiveAssist can be seen in action at Motek 2017 in hall 4, stand 3305.

After an intensive trial phase in several plants, Bosch Rexroth is showing its assembly assistance system ActiveAssist at Motek. The open software solution is another building block on the road to the factory of the future in which employees are supported in their tasks by connected solutions. With

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ActiveAssist, the assistance system identifies the workpiece by RFID or barcode and loads the required work plan immediately onto the monitor, making it visible to the user. The work instructions are then projected directly onto the work surface using a projector and the correct grab container is marked. This guides the employee step by step through the workflow and all of the information is ergonomically positioned in their field of vision. The employee's movements can also be tracked via 3D cameras, making it possible to automatically confirm individual work steps.

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This scenario represents only one of the diverse variations which ActiveAssist can realize and at the same time underlines the three main features of the system:

Modular: ActiveAssist has a modular design in both software and hardware and is freely configurable. Users can equip each assembly station with different assistance functions. In addition, the open software incorporates sensors from various manufacturers. With starter kits for different functional expansion stages, Rexroth guarantees a simple needs-based start-up as well as shorter set-up times and also provides a cost-optimized all-in-one solution.

Connected: ActiveAssist uses web-based software and is a flexible and open system thanks to standardized interfaces. This guarantees global access and allows numerous systems and assembly stations to be thoroughly connected. All data can be processed in real time and the right information is taken to the right place at the right time.

Interactive: By incorporating touchscreens, 3D cameras and projectors, various interactive assistance functions can be realized. From the projection of work instructions and light pulse guidance right through to tool tracking using ultrasonic technology or gesture recognition. Even hardware components such as the Nexa tightening systems from Rexroth can be incorporated, allowing tightening parameters to be monitored and logged.

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 29,500 associates generated sales revenue of approximately 5 billion euros in 2016.

To learn more, please visit www.boschrexroth.de

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 390,000 associates worldwide (as of December 31, 2016). The company generated sales of 73.1 billion euros in 2016. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. 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 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." 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 nearly every country in the world. The basis for the company's future growth is its innovative strength. At 120 locations across the globe, Bosch employs some 59,000 associates in research and development. Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse.

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