

PRESS INFORMATION

Future-proof workstations: Intelligent Operator Guidance Platform with Bosch Rexroth technology can increase productivity

Jennifer Fanning | 07/09/2026 | USA | AT26002

- Projection of work instructions directly onto the work surface
- Integrated real-time quality control prevents errors
- Rapid implementation through configurable standard components

With its clever combination of augmented reality, sensors, software and production systems based on standardized Rexroth components, ARKITE's Operator Guidance Platform eliminates paper-based instructions and guides operators through complex assembly processes in real time. Deployed across more than a thousand applications worldwide, the platform delivers up to 90% reduction in manual errors as well as up to 80% reduction in rework and scrap, and it improves First Pass Yield and supports near-zero-defect quality. Operator training time drops by up to 50% across implementations. Bosch Rexroth's portfolio provides a full range of solutions that encompasses high-end components, digital engineering tools, interactive exhibits and live demonstrations of working systems.

With its Operator Guidance Platform, ARKITE, a Belgian software company, offers a modular software platform for intelligent operator guidance across manual assembly, picking, kitting, sub-assembly, and quality inspection, deployed in industries ranging from electronics to aerospace, life sciences, automotive, and packaging.

"Integrating our Operator Guidance Platform into Bosch Rexroth's global partner network is a decisive step for us. It means manufacturers in any region can now access a proven guidance solution through partners who already know the factory landscape of their customers. The network is in place; now we scale," summarizes Johan Smeyers, CEO of ARKITE.

Proven in more than a thousand applications, the Operator Guidance Platform replaces paper-based instructions and guides operators step by step in real time. The augmented reality instructions are displayed on a screen and projected directly onto the work surface. Operators can then focus entirely on their work steps without constantly looking at monitors.

Even in its "Guide" version, the software uses pick-to-projection technology to mark the picking container with the next component. In addition to purely manual tasks, the system also integrates equipment such as intelligent screw systems, press-fit stations, and collaborative robots into the workflow.

Integrated real-time quality control

In the extended "Validate" version, specific algorithms and a 3D sensor capture the execution of work steps in real time and immediately report deviations. Operators can correct errors early on. This improves First Pass Yield and supports near-zero-defect quality in manual processes. For particularly high-quality requirements, such as precision assembly, ARKITE Vision integrates high-definition vision sensors.

The work instructions are loaded into the stations without programming and cover a high degree of product variation. Open interfaces to higher-level systems simplify work planning and documentation for quality assurance.

Configurable production systems from Bosch Rexroth

ARKITE utilizes Bosch Rexroth's configurable modular system for workplace solutions. It comprises worldwide available standard components and integrates seamlessly into environments with stringent cleanliness requirements. The modular system covers the basic elements as well as all other components necessary for ergonomically optimized and fatigue-free work. ARKITE's Operator Guidance Platform with augmented reality is also suitable for retrofitting existing workstations and production lines.

For more information on Bosch Rexroth's workplace solutions, please visit this site.

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Basic Information 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 and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering 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, around 31,900 associates generated sales revenue of 6.5 billion euros in 2025.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 412,000 associates worldwide (as of December 31, 2025). According to preliminary figures, the company generated sales of 91 billion euros in 2025. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 82,000 associates in research and development.

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