

PRESS INFORMATION

Future-proof workstations: Intelligent Operator Guidance Platform with Rexroth technology increases productivity

Manuela Kessler | 20.04.2026 | Lohr am Main / Germany | PI 015/26

- Projection of work instructions directly onto the work surface
- Integrated real-time quality control prevents errors
- Rapid implementation through configurable standard components
- On-site project planning also through the Bosch Rexroth partner network



Intelligent workstation consisting of standard components from Bosch Rexroth and modular software components from ARKITE for intelligent operator guidance. (Image source: Bosch Rexroth AG)

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. In the future, customers worldwide will be able to obtain the solution platform not only through ARKITE but also through Bosch Rexroth's trained Certified Excellence partners.

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. The solution is available worldwide both directly through ARKITE and through Bosch Rexroth's Certified Excellence partners. "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

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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.

Bosch Rexroth at the Hannover Messe

Bosch Rexroth will present an intelligent workplace with the Operator Guidance Platform from ARKITE in combination with a tightening system and a collaborative robot from Kassow Robots at the Hannover Messe 2026 in hall 26, booth E69.

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 32,600 associates generated sales revenue of 6.5 billion euros in 2024.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 413,000 associates worldwide (as of December 31, 2025). 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, digitalization, electrification, and artificial intelligence. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in hardware, 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 intelligent, user-friendly, and 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 500 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. Bosch employs some 82,000 associates in research and development.

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