

PRESS RELEASE

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For Immediate Use

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

- ▶ Connects physical assembly workstation 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 pioneering Industry 4.0 intelligence. 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.

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ActiveAssist, 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. The assistance system identifies the workpiece by RFID or barcode and loads the required work plan immediately 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 the field of vision. The employee's movements can also be tracked via 3D cameras, making it possible to automatically confirm individual work steps.

The scenario represents only one of the diverse variations which ActiveAssist can realize and at the same time underlines the three main feature 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 a 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.

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To learn more, please visit www.boschrexroth.ca

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