

PRESS INFORMATION

ActiveShuttle from Bosch Rexroth named the “Best Product” at LogiMAT

Manuela Kessler | 01.06.2022 | Lohr am Main / Germany | PI 028/2022

An independent jury praised the outstanding increases in productivity and cost savings thanks to the autonomous mobile robot

At LogiMAT 2022, an independent jury made up of scientists and journalists named the autonomous mobile robot (AMR) ActiveShuttle from Bosch Rexroth the “Best Product” in the “order picking, conveying, lifting and storage technology” category. The ActiveShuttle automates and standardizes the flow of material and goods within intralogistics.

In the jury’s eyes, the ActiveShuttle meets key criteria, namely increased productivity, cost savings and the rationalization of logistics, in an outstanding manner. The robust autonomous mobile robot transports dollies with small load carriers with a total load of up to 260 kg through factories in a fully automated fashion. It takes care of cyclical transport tasks and the consumption-based supply of materials. The new touchscreen display which is integrated into the vehicle console makes the system even more efficient. After all, the operating personnel can now interact directly and intuitively with the mobile robot.

The AMR offers an extensive safety concept that was developed together with Deutsche Gesetzliche Unfallversicherung (DGUV) and meets Performance Level d requirements as specified in EN ISO 13849-1. In addition to the safety laser scanner, stereo cameras scan the room three-dimensionally and recognize objects protruding into the vehicle’s path.

The AMR is fully compatible with VDA 5050 and fits into mixed fleets. With the ActiveShuttle Management System (AMS), Bosch Rexroth also offers a comprehensive piece of software for fleet and job management. In addition to simple transport movements from the source to the sink, complex work sequences too can be created. For example, users can define reference trips or use advanced functions. When it comes to machine-to-machine communication, the ActiveShuttle can send signals to specific route points or only set off in response to a relevant signal.



Roland Keller, Vice President Sales, Business Unit Assembly Technology at Bosch Rexroth, Prof. Dr.-Ing. Johannes Fottner, chair in materials handling, material flow, logistics at the Technical University of Munich, and Michael Ruchty, Project Manager LogiMAT Stuttgart. (Image source: Bosch Rexroth)

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Touchscreen display and 3D obstacle detection: The new ActiveShuttle with Advanced Interaction transports small load carriers autonomously, safely and with great flexibility. (Image source: Bosch Rexroth)

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 Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions 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, more than 31,000 associates generated sales revenue of around 6.2 billion euros in 2021.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,600 associates worldwide (as of December 31, 2021). The company generated sales of 78.7 billion euros in 2021. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. 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 facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. 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 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 76,100 associates in research and development, of which more than 38,000 are software engineers.

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