

Rexroth ROKIT Locator

Your Easy-to-Use Laser Localization Software



The Rexroth ROKIT Locator is a software component for the reliable localization of a variety of vehicles such as manually driven forklifts in dynamic environments. This is made possible by a powerful algorithm that automatically detects and maps the natural environment with the help of up to two laser sensors on the vehicle. Bosch Rexroth thus provides a key technology for efficient fleet management, position-based services such as scan replacement or warehouse navigation for logistics solutions with industrial trucks.

Full flexibility for all conditions

Optimize the use of your entire fleet and benefit from the effortless integration of the ROKIT Locator into your manual vehicles. Thanks to the modular approach, the software is hardware-independent and does not require any construction measures.

Use your forklift fleet efficiently

Localization is the basis for more transparency in the warehouse. Thanks to fast commissioning and reliable operation, you always know where your trucks are. Even after a restart of the vehicles, for example during a shift change, the ROKIT Locator finds the current position independently and quickly. Flexible adaptation to changing environments, such as block storage, also enables automatic map updating for your entire fleet.

ONE FOR ALL

- ▶ Suitable for a wide range of vehicle types, industries and application areas
- ▶ Available as software-only solution or as Rexroth ROKIT Locator.Box – ready to use on an extremely compact industrial computer
- ▶ Supports numerous brands and types of laser scanners and industrial computers

INTUITIVE FOR YOU

- ▶ Express mapping
- ▶ No need for infrastructure adaptations or expert knowledge
- ▶ No maintenance of infrastructure required
- ▶ Automatic map updates

How You Benefit from the ROKIT Locator

Express mapping – guided live mapping

Maps the environment with just a few clicks without the need for infrastructure adaptations or expert knowledge.

Masking

Hides vehicle contours in sensor data.

Manual map alignment

Adjust the map with offsets and rotations.

Reference alignment

Align the ROKIT Locator map to an existing coordinate system.

Initial localization

Automatic localization after a change of position.

Robust and reliable localization

Functions smoothly in dynamic industrial environments regardless of vibrations and ramps.

Wheel odometry fusion

The positioning includes information of laser scans and estimated movements of the vehicle based on the wheel rotations.

Map update

Automatically detects changes in the environment, continuously updates the ROKIT Locator map, and shares it with the entire ROKIT Locator fleet.

User interface aXessor

Intuitive graphical user interface (GUI) for easy commissioning: Mapping with just one click, management of the entire fleet, simple optimization for use in complex use cases

Map expansion

Allows users to extend existing ROKIT Locator maps and replace map zones.

Dual laser

Supports up to two lasers.

Visual recording

Supports the commissioning of complex use cases through live mapping

Auto-calibration

Enables an easier and faster commissioning. With this function, the existing sensors can automatically be calibrated to each other.

Real-time diagnostic information

Diagnostic information is visualized in real-time for you. In addition, the feature Event Center notifications include the ROKIT Locator diagnostic messages.

Extended localization details

Within the live view of our GUI, you get a visual overview of extended localization data and information of the ROKIT Locator algorithm for a better understanding of the parameters.



Have we sparked your interest?

Discover the ROKIT Locator at www.boschrexroth.com/rokit-locator or contact us at robotics@boschrexroth.de.