rexroth
A Bosch Company

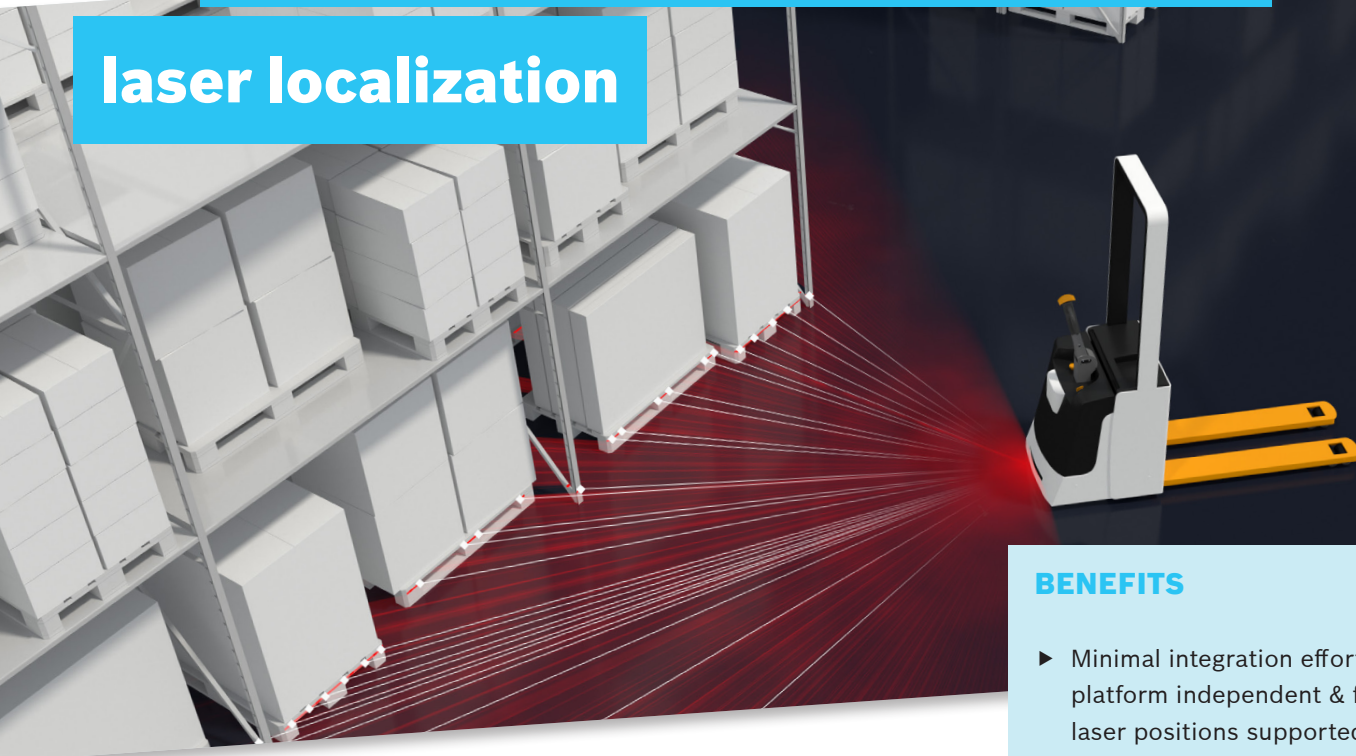# Markerless, precise & continuous

laser localization

GET LOCALIZED – ENABLE YOUR FACTORY OF THE FUTURE!

The laser localization software by Bosch Rexroth provides a key technology for autonomous vehicles in intralogistics and production environments. Using a laser sensor, the software component automatically maps the environment and determines the position and orientation of the vehicle with high accuracy. Being able to run on your hardware, our solution offers high flexibility for your system design. Simple and versatile interfaces reduce the implementation effort in your system architecture.

Localize your vehicle in different use cases

By providing a precise and robust localization we enable you to build autonomous vehicles or develop services, such as fleet optimization. By using our software, your system will reliably operate in dynamic production environments or in flexible warehouse processes. For you, this enables a variety of Industry 4.0 applications, such as autonomous navigation or tracking of goods. The combination of this software solution and the industry leading application know-how of Bosch Rexroth allows you to automate your existing and future systems.

Interested? Get to know the system by trying out our EvaluationKit in your application.

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www.boschrexroth.com

BENEFITS

- ▶ Minimal integration effort: platform independent & flexible laser positions supported
- ▶ Fast & easy setup process: one click mapping – no infrastructure changes & no expert knowledge required
- ▶ Reliable operation: instant localization & high robustness
- ▶ Flexible adaption to changing environments: automatic map update shared across the entire fleet

KEY TECHNICAL DATA

- ▶ Software solution
- ▶ Plug & Go: easy integration into your system architecture; intuitive software & user interfaces; modular system
- ▶ Supports a large variety of laser scanners (incl. safety lasers)
- ▶ Fast update rate: 20-50 Hz
- ▶ Accuracy: up to 1 cm
- ▶ Optional fusion with wheel odometry or inertial measurement unit possible