

RTLS localization for indoors

Contact partner



Thomas Heinke

+49 371 2371-214  +49 371 2371-150
E-Mail: thomas.heinke@sigma-chemnitz.de
Internet: www.sigma-chemnitz.de

About our AutoID and RFID solutions

AutoID and RFID solutions for production, logistics and supply chain. Our customers appreciate us as competent, innovative partner, to accompany them from the initial problem analysis until the goal with commitment. Many years of project experience of our employees form the foundation for effective AutoID and RFID solutions for production, logistics and supply chain.

About GRAIDWARE®

The AutoID middleware GRAIDWARE® is an intelligent abstraction layer for different hardware components and business applications. Work tools, production steps and AutoID data can be identified, monitored, controlled and configured.

About SIGMA

As a reputable system house in Saxony SIGMA Chemnitz GmbH operates as system integrator and partner of well-known Providers in the IT sector. Our over 80 employees at the Chemnitz and Dresden sites form a competent team at the location Chemnitz. With expertise, competence and almost 30 years of experience we offer our customers reliable and powerful solutions.



Locating workpieces during production by RTLS

IT systems that provide **production data in a structured form** for further processing are an indispensable part of Industry 4.0. They are the heart of a business software landscape, help to optimize production through a **variety of data outputs** and support and monitor your work process. Our **standardized Auto ID solution** of indoor localization distinguishes us as a pioneer in **RFID-supported production support** and offers you a quick entry into the RFID world.

It is important for you **to know at any time** which workpiece is located at which workstation. The **integration of this information into your ERP system** is also a core requirement of indoor localization. With the integration of **RTLS technology**, our **RFID / Auto ID solution** offers the possibility to provide information about the current location, material and equipment via an information carrier (badge) in addition to the bookings at incoming and outgoing goods.

As an extension for our **RFID middleware GRAIDWARE** and the system component **RFID Tor** we offer in cooperation with the company ZIGPOS GmbH a solution for indoor localization based on the RTLS technology. The ZIGPOS RTLS consists of information carriers (badge) for the display of production relevant information. The badge is a universal location and communication device that can transmit sensor data in both directions. For this purpose, the system requires readers (anchors) that locate the badges.

Through wireless sensors and e-paper display, the badges can be read and freely written by both machines and humans. The credit card-sized device can be used intuitively and replaces conventional documentation with paper and pen.

Advantages RFID technology

- Fast **reading** of objects
- **Bulk reading** - identification of multiple parts
- **Linking** - ERP system and line
- Monitoring of **production orders** in production is no longer necessary
- **Automatic bookings** and / or stock transfers in logistics and production
- Comprehensive **transparency** on the status of current production orders



Functions

- **Visualization** of location, material, production and target information
- RTLS controlled **recognition** at stock transfer
- **Automatic** ERP posting at transition between production steps
- **Documentation** of production completions and inspection results
- Display of link plan after completion message in SAP Business One
- **Information collection and processing** at goods issue (label printing, QR Scan)