



BATTERY-LESS ASSET LOCATION TRACKING

Our asset location tracking system is the only solution on the market that can track tools, materials, parts, work in progress, equipment and people in 2D and 3D space, near-real-time, with 12” accuracy, and using battery-less tags, resulting in significant waste reduction while improving compliance.

Main Components and Features

Battery-less tags: Able to locate materials in near-real-time and without batteries, for tracking of tools, materials, equipment, people, and any other kinds of assets.

Beacons: Receive the signals emitted by the tags. By synchronizing their internal time clocks, they can very precisely determine the exact time of reception of the identifier emitted by the tag, and thereby locate the tag up to 12” accurate.

UHF Exciters: Function as an energy source for the tags, enabling them to power their emission signals.

Tracking Server: Supports the software application, where the user can track the movement and location of the tags. Connected via Wi-Fi or Ethernet, the UWINLOC system can be kept 100% separate from the client’s regular network, if so desired.

Application: Easy 2D and 3D visualization of tag movement and location, and configuration of e.g. custom geofencing.

Simple installation and ability to track large volumes of all types of assets.

Use Cases

| Tools & Tooling | Materials | Parts |
|------------------|-----------|--------|
| Work-in-Progress | Equipment | People |

Benefits

- **Reduce Time Wasted for Searching:**
 - Always know exactly where things are when needed
- **Reduce Defects from using Wrong Materials or Tools**
 - Easily locate the specific materials or tools needed for a production order
 - Ensure use of correct materials or tools through systems integration of location tracking with MES
- **Automatically Update Job Status or Trigger Alerts**
 - Based on items moving in or out of certain geofenced areas
- **Reduce Need for Cycle Counts and Physical Inventory**
 - Know which product is stored where at all times
- **Reduce Risk of Stock-Outs on Critical (Spare) Parts**
 - Generate automatic replenishment orders when a tag gets recovered from a (spare) part being used
- **Reduce Motion Waste**
 - Develop more efficient routes and layouts based on historical travel paths.
- **Improve Asset Allocation**
 - Track movement of equipment and tools to help assess frequency of use by different parties involved.

About Gemba Systems Inc.

Gemba Systems Inc. supports manufacturing companies in the digitalization of their operations, especially focused on improving their manufacturing execution systems. We help companies navigate the complex and fast-evolving landscape of “smart manufacturing” and the Industrial Internet of Things. We offer guidance, tools, and hands-on support in the selection and implementation of those industry 4.0 technologies that will best support our clients' most critical business processes, and the people who perform them.



People

Our specialists will guide you through your operational excellence journey with the following services:

- Needs assessment and prioritization
- Digital strategy development & execution
- Cost / benefit analysis, ROI assessment, and project justification
- Functional specifications development
- System implementation, Integration, project planning and execution support
- User training and support



Processes

Gemba Systems will help you to achieve your operational excellence goals by implementing effective and efficient processes that deliver the best total return, and realize the full value of your solutions, from planning and assessment through testing, deployment, operation, and nearly continuous improvement.



Technology

Gemba Systems Inc. offers guidance, tools, and hands-on support in the selection and implementation of industry 4.0 proven or promising technologies such as augmented reality (for digital work instructions and inspections, remote technical assistance or warehousing operations), indoor asset location tracking, productivity (OEE) reporting, and advanced planning and scheduling.

For more information, please visit www.gemba.systems or contact us at alain@gemba.systems.

