

Empowering frontline manufacturing teams with real-time visibility



Executive Summary

SEKISUI Aerospace's partnership with Xemelgo on AWS brought their vision for a connected factory to life, demonstrating the value of successful RFID deployment that integrates technology, software, and operational expertise to enhance business operations. By utilizing Xemelgo's cloud-based software built on AWS, mature RFID technology, ERP integration, and lean manufacturing best practices, the company established a seamless system that brings real-time visibility into every order flowing through their production process. This solution provides live alerts for emerging production issues and live production dashboards, empowering everyone from operators on the factory floor to the General Manager with the data necessary to make informed decisions.

Challenges

- **30% On-time delivery** with customers parked in offices asking for parts at worst performing site driven by frequent production delays.
- **Pressure to streamline operations** and improve efficiency due to COVID-19's impact on the global aerospace industry.
- **Lack of real-time visibility into the production process** makes it difficult to identify bottlenecks, track progress, and make informed decisions.

WORK-IN-PROCESS TRACKING

About SEKISUI Aerospace



SEKISUI Aerospace is a tier-2 aerospace manufacturer with 30+ years of experience in designing, testing, and manufacturing composite products. They specialize in carbon fiber, thermoplastics, aerospace interiors, structural composites, composite tooling, ducting, and engineering services.

Their commitment to manufacturing excellence and complete customer satisfaction is reflected in the company's high-quality products. SEKISUI Aerospace is dedicated to driving the future of flight through intelligent automation and the dedicated efforts of their skilled employees.

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“Everyone that you mention RFID to and show that you're able to track, their eyes get wide. They're excited to have that traceability. Even new hires get excited”.

— Patrick Teitzel, Production Manager



Solution

- **Xemelgo's Work-In-Process Tracking solution deployed sitewide** with 110+ RFID readers in a phased "crawl, walk, run" approach to automatically track the location of work orders through production.
- **A "Management Dashboard" was implemented** to visualize production status and prioritize work during daily SQDEC meetings.
- **RFID enables users to easily locate jobs anywhere** on the production floor using "Search-and-Find" and Xemelgo's mobile app.
- **Xemelgo "Live Queues" empower operators** to make informed decisions about which tasks to prioritize to meet production goals.

Results

Improved On-Time Delivery to 90%+

With the help of real-time data, SEKISUI reduced disruptions and delays to dramatically improve their schedule performance by 60%.

Increased Productivity by 3%

Through increased work order velocity, improved production throughput, and streamlined production support operations.

Validated \$2.5M Cost Avoidance

Driven by indirect and direct employee time savings including reduced searching, scheduling, reporting, and more.

Xemelgo on AWS

When Xemelgo's operational expertise combines with AWS's robust platform, the result is an unmatched solution tailored for the manufacturing and industrial sector. Xemelgo streamlines operations with real-time visibility, while AWS provides consistent, secure, scalable infrastructure. Fully built on AWS, Xemelgo's cloud-based solutions utilize cost-effective IoT technologies to automatically collect accurate data from your operations. Xemelgo transforms this data into real-time insights that empowers frontline teams and leaders to work effectively and manage proactively. With Xemelgo on AWS, your factory floor is at your fingertips, anytime, anywhere.

About Xemelgo

Xemelgo's innovative software suite empowers businesses to seamlessly manage their entire operations, from raw materials to finished goods. With real-time visibility into Work-in-Process, Inventory, Assets, and Shipments, Xemelgo helps optimize operations across the manufacturing, supply chain, and retail industries.

