

Multinational Consumer Goods and Health Technology Company

COAST Systems Leverages Matix NB-IoT Technology to Help a Multinational Company Achieve Outsourced Manufacturing Improvements

This COAST Systems customer and global leader in white goods, electronics, and health technology faced a growing challenge: their vast converter supply chain, particularly in Southeast Asia, was operating in the dark. With critical plastic and metal manufacturing outsourced, they lacked visibility into the health and usage of external mold assets driving production. The absence of timely and accurate data on mold asset utilization, performance, and maintenance can lead to several challenges, including unpredictable production schedules, inefficient inventory control, and increased downtime.



How proactive intervention with real-time data of tooling assets significantly increased production output with a rapid ROI



Client Challenges

- The large-scale manufacturer needed more visibility into critical outsourced production metrics.
- Maintaining a consistent level of production output was becoming increasingly difficult.
- Without fully understanding their converters' capacity and production status, optimal inventory levels were not being maintained.
- Possible other challenges: Lead times, workflow, demand forecasting, risk mitigation, customer satisfaction, etc.?

Multinational Consumer Goods and Health Technology Company

COAST Solution

To get a handle on their outsourced operations, the customer sought out cutting-edge technology to provide real-time data. As a Matix asset management technology partner, COAST Systems offered precisely what they needed – a digitized, autonomous solution that was both easy to install and user-friendly. The plug-and-play **Matix Box**, a low-power, cellular technology device that mounts on molds and connects with COAST's Mold Asset Management software, was launched to map out their highest-performing tools, aiming to illustrate the hidden corners of their manufacturing network.

Results

As they tracked telemetry, maintenance schedules, and the health status of their tools, the customer unearthed valuable insights from the real-time data, allowing them to proactively maximize production output for all parties. The implementation of the COAST/Matix technology pairing delivered near-immediate benefits:

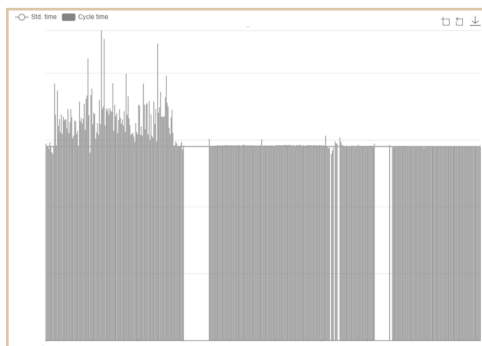
1. Clear discrepancy in cycle times identified.

The customer observed that the cycle times of some of their tools were consistently higher than the nominal values and exhibited significant variation. These tools were experiencing a performance reduction of 35%-45%, along with an unstable and inconsistent process.

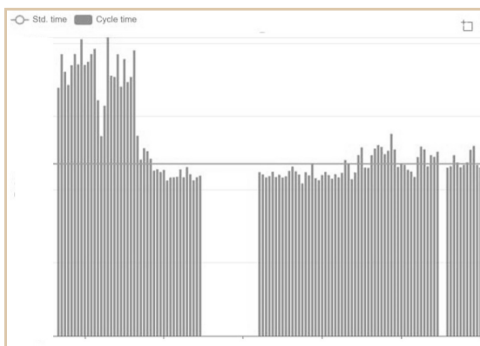
2. Underlying cause of production slowdown and unstableness solved.

Taking immediate action, the customer's engineers collaborated with the manufacturing suppliers to uncover the underlying causes of production slowdowns and instability.

3. Production processes optimized. Output speeds returned to normal. Through timely intervention and collective efforts, the team successfully stabilized the production process and returned to expected production speeds within a few days. The quick discovery and correction of process faults in such a short period minimized costs associated with downtime and inefficiency, enabling the customer to recoup their investment in the technology solution within just four months.



Example 1: Outsourced manufacturing data at converter 1



Example 2: Outsourced manufacturing data at converter 2

The Numbers

- Avoided potential downtime losses of \$000,000
- Maximized production output by 00%
- Realized payback on technology investment in just four months
- Other quantifiable results?



Corporate Headquarters
308 S. Broad Street
Brooksville, Florida 34601 U.S.A.
+1 877-262-7801
www.coastsystems.com
info@coastsystems.com