

Tool and Fixture maintenance system in SanC

This case study demonstrates the transformative power of cloud-based solutions in optimizing production processes within the automotive parts manufacturing industry.

CASE STUDY | 2024

By adopting a cloud-enabled tool and fixture maintenance system, ENCO has achieved substantial improvements in its production efficiency. The system's online data recording, automated analysis, and proactive scheduling capabilities have significantly reduced rework, minimized downtime, and enhanced overall maintenance effectiveness.

 ENCO

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Challenge: A leading automotive manufacturer, facing issues with a manual tool and fixture maintenance (PM) system, encountered:

Increased Rework: Inaccurate or incomplete PM records due to manual systems led to undetected tool and fixture issues, resulting in production line disruptions and rework.

Inefficient Maintenance: The manual system lacked real-time data and insights, making it difficult to schedule preventive maintenance (PM) effectively, leading to potential breakdowns and production delays.

Solution:

To address these challenges, ENCO implemented a cloud-enabled tool and fixture maintenance system. This innovative solution provided several key features:

Online PM Recording: The system allows for real-time recording of all preventive maintenance activities conducted on tools and fixtures directly on the shop floor.

Data-Driven Analysis: The cloud architecture enables automated generation of critical metrics like Mean Time To Repair (MTTR) and Mean Time Between Failures (MTBF) for tools and fixtures.

Improved Scheduling: Based on collected data and generated analytics, the system facilitates proactive PM scheduling, preventing potential breakdowns and disruptions.

Results:

The transition to a cloud-based PM system has yielded significant benefits for the company, including:

Reduced Rework: Accurate and readily available data on tool and fixture health minimizes undetected issues, leading to a significant reduction in rework generated from faulty tooling.

Minimized Downtime: Proactive PM scheduling based on real-time data analysis helps prevent unexpected breakdowns, ensuring smooth production flow and reduced downtime.

Enhanced Efficiency: Cloud accessibility allows for centralized data management and improved communication between maintenance personnel, further optimizing maintenance processes

