SCYTEC

DATAXCHANGE

Case Study

OEE and Productivity Increase with Machine Monitoring

FUTURE FOAM

Client: Future Foam
Industry: Polyurethane Foam Products
Specific Products: Carpet Cushions

Interviewee: Hrushikesh Ghatpande PM
Equipment: Carpet Laminator Machine
Connection Method: OPC UA

A solution was needed for Future Foam's business problems. Those solutions were provided by

DATAXCHANGE

About Future Foam

FUTURE FOAM

Future Foam is one of the leading producers of foam materials, manufacturing their products to meet clients' exact specifications every single time. Family owned since 1958, Future Foam is guided by a team that crafts materials of superior quality for every room in your home, from premium carpet cushions to mattress toppers and pillows. Future Foam uses proprietary best-in-class formulations and creates a precise level of rebond carpet cushion to absorb impact, keeping floors soft, and carpets lasting longer.

What Were the Problems?

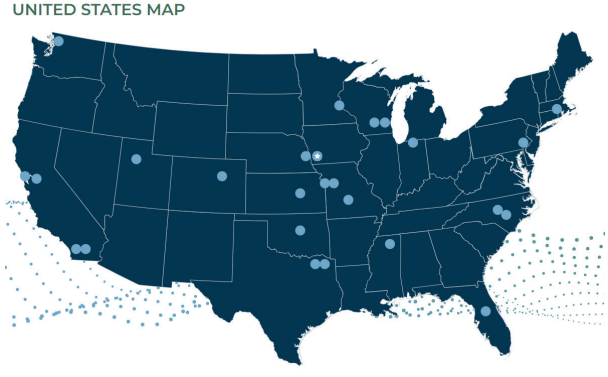
Future Foam began looking into a machine monitoring solution after their legacy non-CNC machines presented production challenges including limited connectivity options, unconventional cycling and downtime phases, continuous flow processes, and a need for an initiative-taking outlook regarding OEE. Future Foam has twenty-two locations across the country and a need for remote factory monitoring to drive real-time KPIs was an omnipresent one.

What Were the Requirements?

Future Foam needed a machine monitoring platform that could display machine states and OEE comparisons across production lines. Future Foam needed to save valuable production time by automatically detecting machine down times, by having the ability to store and analyze historical data, and by reducing operator dependency to collect machine data.

Success Summary

- Decrease in Downtime
- Five to Ten Percent Increase in Productivity
- Five to Seven Percent Increase in OEE
- Increase in Availability
- Improved Accountability



Future Foam locations in the USA

Business Requirements

- Analyze Data
- OEE Comparisons
- Save Time
- See Downtime Reasons
- See Machine States

What Was the Solution?

The potential solutions for Future Foam's shop floor challenges were plentiful including a PHP based home-grown solution and other machine monitoring platforms. **The Real-Time Dashboards, configurable data collection notification rules and OPC UA support were the standout features that made Scytec DataXchange the perfect machine monitoring solution for Future Foam.**

The Outcome

Since implementing the Scytec DataXchange machine monitoring solution, **Future Foam has seen an increase in productivity ranging from 5 to 10 percent** by helping shop floor supervisors make proactive decisions. Unplanned downtime difficulties have also seen alleviation on the Future Foam shop floors now that personnel are able to proactively identify the downtime reasons.

5-10% Productivity

Future Foam **Systems Engineer Hrushikesh Ghatpande** states that...

"Since we began monitoring, our **OEE has improved by an average of 5-7 percentage points**. Most of the improvement has come from the availability since we were able to pinpoint the reasons for unplanned downtime".

5-7% OEE

The Scytec DataXchange machine monitoring platform has helped Future Foam experience less downtime and better awareness of downtime reasons as well as improvements in historical performance trends, shop floor accountability, scheduling, and communications. Scytec DataXchange has also allowed Future Foam to access full data visibility and accuracy, limiting the impact of shop floor problems using real-time information from the data collected on the shop floor.

The Results

- Improved Accountability
- Improved Communications
- Improved Scheduling
- Improved Visibility into Historical Trends
- Less Downtime

The Next Steps

Implementing a machine monitoring platform like Scytec DataXchange is meant to be effortlessly incorporated into a daily routine and not seen as something that is an added chore. Future Foam believes that they had the right starting point as a proof of concept for what a machine monitoring system could do. And that they were able to improve their solutions to get better and more accurate data. Hrushikesh affirms that…

"DataXchange is the first thing I pop into each morning when I begin working, and so do a lot of users at Future Foam. It helps us get a clear managerial view of the operations since the beginning of the shift without having to go into the details. Our weekly OEE meetings used to be around discussing downtimes from the previous week and the reasons, but **now we talk more about what was done to prevent such downtimes in the first place with the real-time information at hand.**"

What Would Have Happened?

Not implementing a machine monitoring platform would have had consequences at Future Foam. In Hrushikesh's own words...

"**We would be in a reactive mode to shop-floor challenges** after data would be analyzed daily or weekly. We wouldn't be able to achieve productivity improvements, since the moment would already be gone by the time we react to the cause of a downtime."

Scytec DataXchange is a Cloud and On-Premise OEE manufacturing machine monitoring system, and so much more. For more information as well as a free demonstration of the capabilities of Scytec DataXchange, please visit **https://scytec.com**

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