MATICS

RIMONI
Because We Always Deliver

Case Study

Rimoni Makes the Most of Opportunities for Improved Productivity With Matics

The Matics Solution has been integrated at many facilities around the world in order to address specific challenges and improve productivity and efficiency. One of those companies is Rimoni, an Israeli plastics manufacturer. By working with Matics, Rimoni has been able to improve productivity across the board and take advantage of every opportunity for increased efficiency.

Our solution provides manufacturing operations with real-time operational intelligence (RtOI). The platform aggregates data from your existing enterprise resource planning (ERP) and machines on the shop floor to give full visibility to your organization, along with the planning and optimization tools needed for continuous process improvement. This solution has provided the tools necessary for Rimoni to take its productivity to the next level.

Rimoni's Operations and Its Unique Opportunities

Rimoni identified a number of key opportunities for increased productivity in their manufacturing environment and chose Matics to provide a solution that met the following criteria.

1. Implementation that didn't cause any disruption in their just-in-time production schedule.

2. Improved scheduling to increase machine availability and OEE

3. Faster and more accessible access to important production data to allow production teams to better address unexpected events.

4. Fast-paced and optimized raw material management that can reduce costs

5. Consolidated communications to prevent information silos and reduce reaction times

Rimoni is a company that applies its extensive expertise in plastics manufacturing to a wide variety of industries. They currently operate two factories that collectively operate over 100 plastic injection molding machines. These factories produce many different parts for automotive, health care, consumer goods, and other industries, priding themselves on the versatility and quality of their work.

"Wherever people need products that make the world a better and more comfortable place, Rimoni stands ready to design and manufacture high-quality solutions, irrespective of production size."

Many other manufacturers rely on parts from Rimoni to complete their products. As such, **delivery time** is among the most important criteria for their organization. With so many organizations operating on just-in-time inventory systems, excessive delivery time can quickly propagate through the supply chain and leave many customers dissatisfied.

The other essential criteria for operations at Rimoni is **raw material consumption**. Of course, any waste within the process will lead to higher raw material consumption and reduced profitability.

Some systems at Rimoni's facilities weren't capable of seamless integration. The dosing system, for example, couldn't communicate directly with quality management. Rimoni identified an opportunity for more streamlined workflows if they could find a solution that could bring their existing systems together.

By finding effective solutions to take advantage of these opportunities, Rimoni sought to move forward as an innovative manufacturer. It was clear that digitalization was the next big step for their production environment.

Finding the Right Solution for Rimoni

Overall, the digitalization that Rimoni hoped to achieve would deliver better quality data, real-time accessibility, remote management, and full visibility. Not only would the selected solution need to meet those goals, but there were additional constraints that would have to be taken into account.

The first was regarding stability and accessibility. Manufacturing operations like those at Rimoni won't accept faulty systems that cause significant downtime. The solution would need to be stable and demonstrate 24/7 availability. Not only that, but they required the solution to be cloud-based and remotely accessible while maintaining security.

The solution that Rimoni was looking for would feature the tools necessary to drill down and segment at any level, allowing stakeholders within the organization to truly understand the process in terms of real-time production and trends.

Solutions can take significant time to integrate, disrupting operations during that time. Manufacturers like Rimoni, which process work orders in a timely manner, won't allow these kinds of interruptions. A streamlined integration period would be required for any solution.

Most importantly, Rimoni was looking for a true manufacturing solution partner that could work with them to address their unique needs. They required a partner with exceptional customer service and support that goes beyond the features of the solution.

Results: Providing a Successful RtOI Solution for Rimoni

Rimoni chose the Matics Solution, and our team set out to work integrating it into their facilities. We worked closely with Rimoni throughout the process to ensure that they received all the benefits that Matics has to offer. In the end, the Matics Solution proved to be a success for Rimoni across five key success metrics that realized the opportunities that Rimoni had set out to achieve.

1. Seamless integration with Matics prevented any downtime from causing production delays.

2. Access to accurate productivity information allowed Rimoni to improve scheduling and machine availability.

3. Contextualized access to real-time data and alerts lets Rimoni address issues as soon they happen and provide on-time delivery more consistently.

4. Improved raw material management with Matics allowed Rimoni to reduce material waste costs and improve OEE with fewer stoppages.

5. Improved data visibility and effective communication tools from Matics allowed departments to cooperate even more effectively.

Success Metric 1: Seamless Integration

Seamless integration was among the most important requirements for Rimoni. In order to ensure that the integration of our solution caused minimal disruption, Matics provided modular integration. The first step was the installation of the Matics Solution on shopfloor personnel's mobile devices. This provided immediate access to essential information on machines on the shop floor.

Employee adoption was effortless, with the application seeing daily use to improve operations at this level. As time went on, continued use of the solution allowed their team to realize even greater benefits.

The Matics Solution can provide the same seamless integration for facilities anywhere. The solution is available in multiple languages, making it suited for production teams anywhere in the world. Not only that, but the cloud-based foundation of the solution allows for distributed operations to work seamlessly between multiple locations.

Security is an important element of any transition, and Matics provides a secure cloud-based solution that can integrate with any existing ERP, MES, and more.
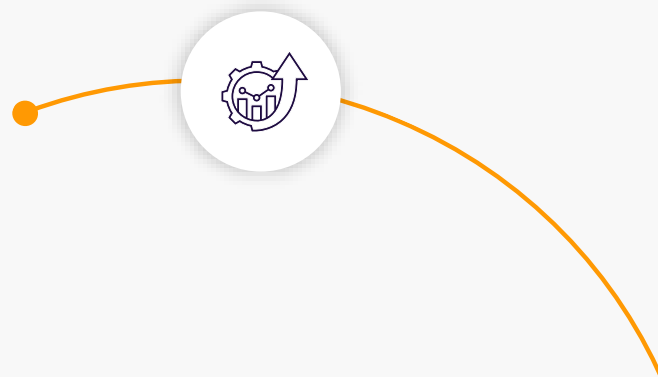
Integration with Rimoni's ERP and other systems aggregated all of their solutions into a single source of truth for all operations. Now, with easy access to this single source of truth through mounted tablets for all of their machines, Rimoni has achieved digitalization of their shop floor without any unnecessary disruption.

Success Metric 2: Increased Productivity

There are many different factors that can affect the overall productivity of any manufacturing operation. For Rimoni, operations must contend with the complexity of handling multiple process steps, namely mold-making, injection, and assembly. Having to coordinate these steps and material requirements leads to many potential points where productivity can decrease.

This is further complicated by the presence of manual labor input for some machines. Differences between different operators and different shifts can be significant, and being able to evaluate this plays an important role in planning. Matics makes it possible to easily view the productivity of individuals on various machines, creating an opportunity to optimize who runs which machines.

Overall, the Matics Solution allowed Rimoni to increase productivity by 25%. With the real-time understanding that they need, their production teams have been able to improve productivity across the board. This increase came within just three months of integrating the Matics Solution.

Success Metric 3: On-Time Delivery

Delivering products on time is essential across almost every industry and is particularly important for Rimoni's role within the manufacturing supply chain. Late delivery can severely impede the operations of downstream manufacturers, making delays incredibly costly and liable to lead to lost business immediately.

The digitalization provided by the Matics Solution has given Rimoni the tools they need to sustain on-time deliveries with target costs. This is achieved by giving greater control over real-time production planning to key stakeholders. With Matics, a digital plan can be developed, accessed, and modified as needed. This increased control lets Rimoni react more effectively to changes and avoid potential delays, ensuring costs and deadlines are met.

Making effective use of time is critical to Rimoni's success. Matics helps make better use of time by providing information in a manner that is immediately actionable. In many cases, production teams can't make use of the data that they have available. Matics makes it possible to take action when machines aren't working or when other production issues arise with the information necessary to make effective decisions.

The Matics Solution provides an intuitive and effective way for production teams to evaluate production during shifts in real-time. The comparison between planned and actual production effectiveness to rapidly identify issues and ensure that production timelines are met.

Success Metric 4: Raw Material Management

Effective raw material management is an essential factor in determining the profitability of tier 3 manufacturers like Rimoni. Excess raw material consumption directly impacts profitability by raising one of the highest costs for operations. For Rimoni, the optimization of raw material use with Matics has had many benefits.

Integrating a Real-time Operational Intelligence (RtOI) solution provided Rimoni with clear, precise, and accessible information regarding the quantity of material required for individual work orders in real-time. This information allowed Rimoni to further optimize its workflow around raw material management, mitigating material waste, and preventing mid-shift shutdowns due to a lack of raw materials on the floor.

The management of raw materials required the time and input of multiple stakeholders due to the need to manage raw materials across multiple timelines at the micro and macro levels. Now, Rimoni has thoroughly optimized its raw material consumption management, improving productivity and profitability.

Success Metric 5: *Enhanced Visibility*

For many manufacturing environments, improving visibility can lead to increased productivity. Rimoni knew that a solution that gave them more access to reliable data could help them meet their production goals and drive forward their continual improvement and industry 4.0 best practice adoption.

Integrating a Real-time Operational Intelligence (RtOI) solution on their shop-floor enabled Rimoni to continually aggregate and analyze information from their shop-floor. With Matics, each stakeholder can access the information they need, when they need it, in the format they need it, enhancing overall shop-floor visibility and enabling Rimoni to rapidly respond to critical events on their shop-floor as they occur.

The Overall Results of Rimoni's Matics Integration

The digitalization of Rimoni's shop floor with Matics RtOI has been another case of successfully implementing our solution to enhance manufacturing operations. The Matics RtOI solution has helped Rimoni meet its goals for improved delivery time and raw material consumption as well as enabled them to showcase continual improvement and optimization.

Today, Rimoni is able to thoroughly optimize operations at the shift level and beyond, improving its ability to meet its customers' expectations while reducing both material and productivity waste internally.

Rimoni highlighted a number of key Matics features that they believe have helped improve their operations.

- As a manufacturer with two geographically separated factories, the multi-enterprise performance of Matics enables Rimoni to compare dispersed sites with standardized KPIs.

- Matics provides a platform for standardizing quality and efficiency standards among separate facilities.

- Capacity planning for existing factories provides the potential for planning when additional facilities will be necessary to meet demand.

- Analysis and alerts let production teams address issues before they arise.

- Solutions can be implemented more quickly and more reliably with full visibility factory floor operations.

- Continuous process improvement is made possible in both short and long terms with higher quality and more accessible data.

- Overall streamlined production enables faster time to market

About Matics

Rimoni is just one example of a manufacturer that has benefited from the integration of the Matics Solution. Our real-time operational intelligence can provide these benefits for manufacturing environments of all kinds. We digitalize your shop floor through the seamless integration of your existing ERP, MES, machines, and input from human experts into a centralized system that gives you the information on and control of your process that you need to succeed.

If you're interested in what the Matics Solution can do for your organization, you can contact our team today to book a demo.