

CASE STUDY



Increasing Production Capacity for a Personal Care Manufacturer

Enhancing safety, cutting energy use by 15%, and boosting production capacity by 20% for sustainable personal care manufacturing

Industry

Home & Personal Care Products Manufacturing

Client Summary

A well-established manufacturer specializing in custom home and personal care products, focused on quality, flexibility, and sustainable production.

Highlights

-  **Safety:** Improved operational safety through automation and real-time monitoring
-  **Savings:** 15% reduction in energy consumption and material waste
-  **Sustainability:** Alignment with eco-friendly practices, cutting CO2 emissions by 10%
-  **Numbers:** 20% increase in production capacity
-  **Benefits:** Enhanced efficiency, reduced downtime, and better product quality

Challenges

- ▶ Existing system constraints limiting production growth
- ▶ The need for increased efficiency while maintaining product quality
- ▶ Compliance with environmental sustainability goals

Project Success Factors

- ✓ Successful integration of automation and IoT systems
- ✓ Seamless scale-up of production capacity
- ✓ Reduction in resource usage and operational costs
- ✓ Safety improvements with real-time monitoring and fail-safe systems

System Highlights:

- ▶ Process compounding system for chemical mixing
- ▶ Fully automated blending and packaging
- ▶ Integration of Industrial IoT for real-time data and diagnostics

Customer Feedback

"The upgrades provided by Instron Technologies significantly improved our production efficiency and allowed us to meet our sustainability goals while maintaining product quality."

About Instron Technologies

With operations in Canada and India, Instron Technologies is a leader in Process Skid Plants, Digital Factory Solutions, and Test Bench Systems. Committed to sustainability, our dynamic team develops innovative solutions that not only meet critical customer challenges but also emphasize eco-friendly practices. Serving over 200 clients in more than 10 countries, we demonstrate our dedication to innovation, operational efficiency, and environmental responsibility.

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