

Case Study: Automated In-Motion Checkweighers — High-Speed Accuracy That Keeps Production Moving

Category: Industrial Scale Solutions – Conveyor and In-Motion Checkweighers

Client Industry: Manufacturing / Packaging **Location:** Midwest U.S.

Solution Provided By: Automated Weighing Solutions

Challenge

A high-volume packaging facility was experiencing bottlenecks in its end-of-line quality control process. Manual weight checks caused:

- Slower throughput and line interruptions
- Inconsistent weight verification
- Increased labor requirements
- Difficulty maintaining accurate, real-time product data

The client needed a **fully automated, integrated weighing system** that could deliver **continuous, precise weight measurement** without slowing down production.

They also required **real-time data capture** for quality reporting and compliance — and a solution that would easily integrate into their existing conveyor system and control infrastructure.

Solution

Brechtbuhler's Automated Weighing Solutions designed and implemented a **custom automated in-motion checkweigher system**, tailored to the customer's production environment.

Key System Features:

- **Automated, high-speed weighing** that eliminates the need for manual checks.
- **Real-time data integration** with PLC and ERP systems for seamless communication and quality tracking.
- **Automated reject mechanism** to ensure consistent quality control.
- **Compact, modular design** that allows the system to be added to existing conveyor infrastructure with minimal downtime.
- **Durable construction**, built to handle continuous industrial use in a hygienic environment.

The engineering team worked directly with the client's automation specialists to ensure the system integrated smoothly into their existing process controls and data network. The added efficiency consolidated four rework roles into a single floating position, improving task coverage and freeing up team capacity.

Results

After implementation, the facility achieved notable improvements in efficiency and process control.

The automated checkweigher now provides:

- **Consistent, accurate weight verification** across all product runs.
- **Faster throughput** and reduced manual handling.
- **Reliable quality control data**, automatically captured and reported.
- **Improved overall productivity** through better integration and fewer manual steps.

This project demonstrated how Brechbuhler's Industrial Scale Solutions help manufacturers improve performance, accuracy, and data visibility — all while maintaining production flow.

Key Takeaways

Feature	Benefit
In-motion weighing	Continuous, non-stop production
Real-time data integration	ERP/PLC connectivity for total control
Automated reject mechanism	Improved quality assurance
Hygienic construction	Suitable for food and packaging
Modular retrofit design	Fast installation, minimal downtime

Why It Matters

Automated in-motion checkweighers represent a key advancement in industrial automation.

By combining **accuracy, integration, and reliability**, Brechbuhler's systems enable manufacturers to maintain product quality and process speed - without compromise.

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