

CASE STUDY



Steelcase Retrofits Legacy Machinery with IIoT Capabilities for Data-Driven Business Decisions

Manufacturing

Machine Monitoring

In Production

Arduino Opta



LEVERAGE REAL-TIME DATA FOR BUSINESS DECISIONS



IMPLEMENT A COST-EFFECTIVE SOLUTION TO IMPROVE OVERALL EQUIPMENT EFFECTIVENESS



RETROFIT EXISTING EQUIPMENT WITH IIoT CAPABILITIES

The Challenge

Steelcase is a global furniture design firm and manufacturer known for their innovative approach to design. Steven Jones, a Technical Process Consultant at Steelcase sought a solution for a legacy machine in their Grand Rapids, MI wood plant. Their destacker machine – which takes boards from a stack and places them on a conveyer belt – occasionally underperformed. To understand why, Steven looked to the Arduino Pro Opta to introduce Industrial Internet of Things (IIoT) capabilities to this legacy device.

Our Solution

Using Opta to monitor electrical states, the details of the machine's status are sent to the cloud for real-time monitoring and reporting. This new functionality enables cloud-based dashboards for the Steelcase team to understand and analyze how the destacker's performance impacts downstream processes. By leveraging data-driven insights, Steelcase anticipate increased use of AI to revolutionize decision-making processes and enhance efficiency and productivity in their factories.



"The IoT tools becoming available are much more cost-effective than they have been in the past. The technology now is available to do things that were never imaginable before. Opta has digital inputs and digital outputs, analog inputs, outputs, everything that a regular PLC would have."

**Steven Jones, Steelcase
Technical Process Consultant**

