



ENGINEERING SPECIALISTS INC.

Providing Technical Engineering Services Worldwide Since 1974



KNOWLEDGE & EXPERIENCE YOU CAN TRUST

Leading Manufacturer of Corrugated Packaging Improves Production and Reduces Cost With Controls System Upgrade

Situation:

A leading manufacturer of corrugated packaging had a carton folder on a critical production line that was underperforming. Product quality and throughput were suffering due to challenges with the obsolete controls hardware maintaining proper timing.

Attempting to correct these issues was a weekly task for the maintenance staff, taking them away from other areas of need in the plant. In addition, replacement components were scarce and cost prohibitive which resulted in significant loss of production and negatively impacted the overall maintenance budget.

Issues: Downtime, Throughput, Quality, Safety

Solution:

Engineering Specialists proposed a redesign of the existing control system from the ground up utilizing Allen-Bradley hardware including a CompactLogix PLC, Kinetix servo motors, and a PanelView HMI. In conjunction with a new master line encoder, the proposed solution aimed to address the timing issues by utilizing faster, more accurate hardware.

The newer hardware was also current and readily available, so should any unplanned hardware issues arise, replacement hardware was available locally same day. Lastly, the control system was designed with both operator safety and ease of maintenance, with all high voltage components separated from low voltage components in their own sections of the modular enclosure.

Objectives:

- Reduce downtime/lost production
- Increase overall daily throughput
- Reduce waste (out of spec product)
- Reduce annual maintenance cost

Results (as of September 2016)

- Waste reduced significantly
- Overall daily throughput increased
- ZERO unplanned downtime since installation
- ZERO maintenance cost since installation

We use our experience with current and emerging technologies to provide robust, custom automated control systems, equipment and networked information systems that improve the efficiency, product quality and profitability of our customers.



Before:



After:



Our History

**A REGISTERED PROFESSIONAL
ENGINEERING FIRM**

UL508 Certified (NNNY, NRBX, NITW)



Engineering Specialists, Inc. was founded by Robert Miller, a graduated of Marquette University's Electrical Engineering Program and Robert Phillips, a graduate of MATC.

The two close friends in need of a change had thought about consulting, but instead began building and designing the sophisticated equipment used by many of the most competitive businesses in the market today. Bob Miller recalls filing the very first customer file in his cabinet wondering if he would ever fill it. That was over 40 years, 1400 customers, and 20,000 projects ago!

With the technological challenges that all businesses experience, sometimes on a daily basis, Engineering Specialists has managed to evolve with the times to keep its customers in motion and ahead of their competition.

Contact Engineering Specialists today and find out how our skilled engineers and technicians can provide your unique business with the tools it needs moving forward successfully into the future.

3 Convenient Locations

CORPORATE OFFICE

21360 Gateway Court
Brookfield, WI 53045
Phone: (262) 783-8000
Fax: (262) 783-8001

NEENAH OFFICE

2416 Industrial Drive
Neenah, Wisconsin 54956
Phone: (920) 751-3900

RACINE OFFICE

1139 Sunnyslope Drive
Mount Pleasant, WI 53406
Phone: (262) 783-8000
Fax: (262) 783-8001

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