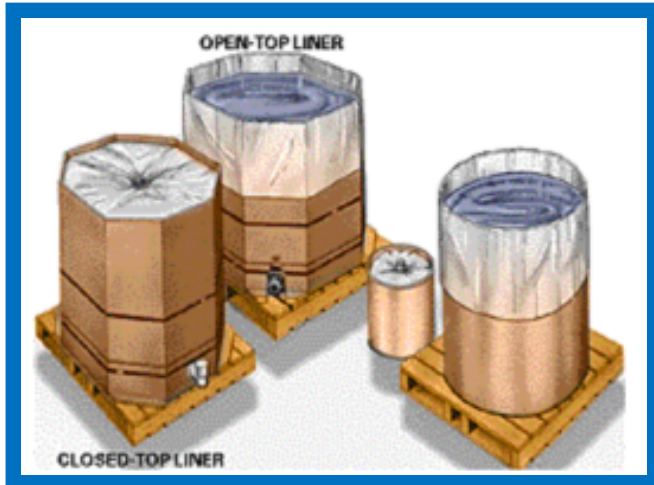


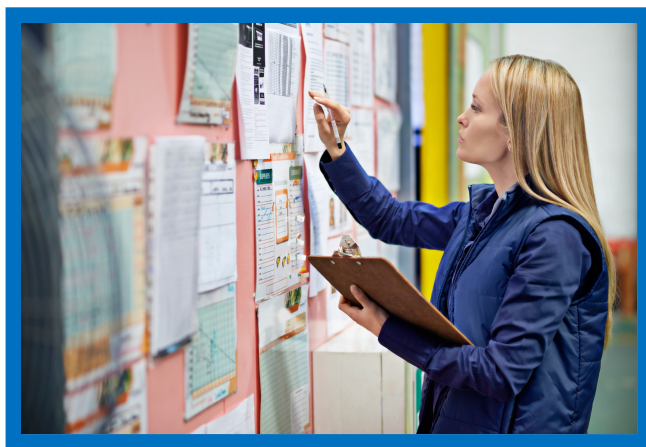
# Automated Folding System

Bemis/Shield Pack  
West Monroe, LA

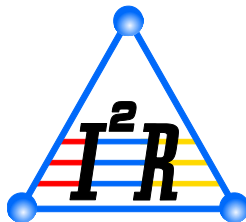
Success Story



IBC Liners



Commitment to Project Management



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## Business Case

Bemis/Shield Pack is a major manufacturer and supplier of Intermediate Bulk Container (IBC) Food Liners used in the Food & Beverage industry. The typical food liners produced have an 8 ft x 8 ft footprint. These liners are then folded to approximately 24" x 18" for group packing in a cardboard container for customer shipping. Currently, the food liners were folded by hand and require two people and about 30-45 seconds to complete each folded food liner. Bemis was looking for an automated folding solution and selected I2R to work with.

The optimal solution would provide:

- Reliability
- Rate: 1 liner folded every 7 seconds
- Require 1 operator

## Our Solution

I2R teamed with a mechanical design and build firm to provide the mechanical portion of the automated folding system. I2R designed and integrated the complete controls hardware and software for the system.

The controls architecture featured servo controls for all conveyors and folding mechanisms.

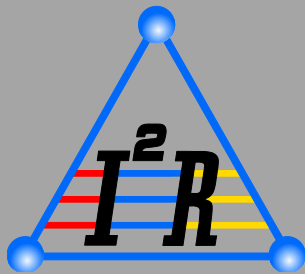
The modular concept of the Automatic Folding System consisted of:

- Infeed Queue Conveyor Section
- Right Side Folding/Conveyor Section
- Left Side Folding/Conveyor Section
- Bottom End Folding/Conveyor Section
- Top End Folding/Conveyor Section
- Discharge Conveyor Section

The overall concept was solid and the Automatic Folding System was demonstrated during a limited Factory Acceptance Test (FAT).

## Services Provided

- Project Management
- Subcontractor Management
- Mechanical Design Corrections
- Conceptual Control System Design
- Control System Architecture
- Material Procurement
- Control Panel Fabrication
- PLC Programming
- HMI Programming
- Servo Programming
- Factory Acceptance Testing
- Control Prints AutoCAD Electrical
- Simulation
- Commissioning
- Site Acceptance Testing
- Informal Training
- Long-term Remote Support



[www.i2r.com](http://www.i2r.com)



**Bemis**  
Shield Pack  
Specialty Packaging

## EQUIPMENT INSTALLATION AND SITE ACCEPTANCE TEST (SAT)

The mechanical design and build firm was responsible for the mechanical installation and equipment alignment. Unfortunately, the equipment was not precisely installed or aligned and some flaws were discovered during the SAT. The mechanical firm was not committed to correcting their deficiencies and considered their portion of the project complete.

This was unacceptable to both I2R and Bemis. I2R took over the mechanical installation and setup of the Automated Folding System. Along with our personnel, we hired and managed local fabrication and machine shops to correct the mechanical flaws and properly align/set-up the equipment to Bemis' satisfaction and approval.

## OUR COMMITMENT TO OUR CUSTOMER'S SUCCESS

I2R is committed to customer satisfaction. Custom machinery and automation solutions can be very challenging and I2R has the integrity and relentless commitment to deliver.

We will do what we say we are going to do for you.