

# CDSL Newsletter



Control Design Solutions Ltd.

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## CDSL Background

Founded in 2000 and located in Bowling Green, Ohio

Develop Practical Hardware and Software Solutions

Process & Packaging Design and Integration for the Food, Paper and Auto Industry



## Services

- Equipment Installation Construction Documents
- Control System Design
- PLC Programming
- HMI Programming
- Process Design
- On-Site Support
- Specialty Equipment Design and Fab.

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## **Packaging Line Performance Investigation**

CDSL was requested to evaluate five (5) packaging lines that merge to feed two (2) casepackers at a Chicago based bakery. CDSL determined that throughput and efficiency of the system could be significantly increased through modifications to the casepacker conveyor infeed and merge subsystem. CDSL generated a list of recommendations, with budgetary cost estimates, which were reviewed with the client. An implementation plan was then developed for the proposed modifications.

Implementation of the proposed modifications resulted in a 4.4 percent increase in system performance and a 4.9 percent increase in average cases produced per day. The overall scrap was reduced by 3.3 percent which represents a savings of over \$200,000 per year.



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## Control System Emergency Replacement

A local manufacturing plant called to say that all communication was lost between their existing UNIX computer and the DOS based I/O system shutting down 50% of the plant production. Once it was agreed that the existing system could not be saved, CDSL was able to respond with new panels, ControLogix hardware and programming for manual control to get them back up and running. This was accomplished in three weeks by setting the enclosure to allow field wiring to take place while the hardware was specified, received and mounted in the shop and engineering completed. CDSL then assisted with the I/O check-out and production start-up to get the plant back up and running.

*"...fast track project  
completed one month  
ahead of schedule and  
almost \$1 million under  
budget"*

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## New Process/Packaging Lines

CDSL provided process and electrical engineering services as well as coordinating the structural design associated with four new mix lines for a major food manufacturer. The design consisted of bulk ingredient delivery system modifications, refurbished mixers, new ingredient delivery and packaging bins, discharge screws, pouch fillers, checkweigher/metal detectors pouch conveyors and cartoners all feeding two new robotic palletizers. CDSL also provided I/O check-out and system start-up field assistance. With CDSL's assistance the client was able to complete this fast track project approximately one month ahead of schedule and almost \$1 million under budget.

*"...just in time ingredient  
delivery"*

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## Frozen Ingredient Delivery System

CDSL has been retained as a subcontractor to an out of state equipment vendor to provide a major food manufacturer with a frozen ingredient delivery system. The manufacturer provided our client with the project parameters. From this, CDSL developed a concept design and an operational sequence for a just in time ingredient delivery system that resulted in the award of a \$1.6 million dollar order for our client. CDSL also performed shop tests on various aspects of the system to verify the validity of the concept. This system will provide the manufacturer with an automated system for the delivery of boxes of ingredients to each of 12 mix kettles. Work on this system is currently underway.

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If you have customers, clients, co-workers or friends that are in need of assistance with process and/or packaging projects, custom equipment, control integration or industrial automation we would appreciate it if you would forward this newsletter or provide them with our contact information.

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This distribution list was developed from contacts of the CDSL employees. If you do not want to receive future copies of the CDSLNewsletter, please respond to this e-mail and your name will be removed from the list.  
Thank-you

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You can find additional information about CDSL by going to our website at [www.cdsl.biz](http://www.cdsl.biz)

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