

# CDSL Newsletter

## CDSL Background

Founded in 2000

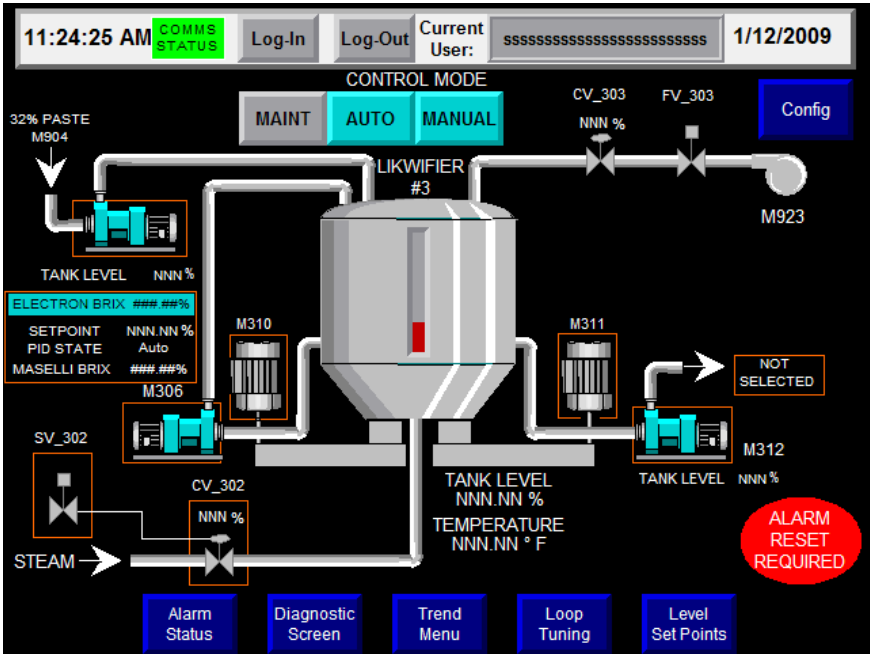
Located in Bowling Green, Ohio

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 Fabrication.



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## **CDSL – Solution Provider of GE Intelligent Platforms**

In a continuing effort to offer our clients the best control system solution to fit your requirements and your control system strategy, Control Design Solutions Ltd. (CDSL) is proud to announce our new alliance as a Solution Provider with GE Fanuc. This new alliance will enable CDSL to offer GE Proficy software application solutions as well as continuing to offer Wonderware and Rockwell solutions.

As a client of CDSL you will benefit from our broad range of software automation offerings. The GE Fanuc solution provider program will allow CDSL to access GE cost effective development software and training.

GE Intelligent platforms are powered by Proficy SOA. “Proficy SOA provides an industrial Service Oriented Architecture (SOA) platform and enables you to solve production challenges with improved interoperability and composite applications that leverage a cross-system real-time data and services bus and repository. You can consolidate and simplify systems, lower operation costs, respond more quickly to changing needs and ease training.”

If you would like more information on GE software solutions please contact us.

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## **CDSL Helps Co-Packer Meet Seasonal Demand through Team Work**

The experienced staff at CDSL has performed in a vast array of manufacturing environments. CDSL was approached by an existing client to facilitate the installation and startup of ice cream production at a co-packers facility.

Our involvement started after the basic layout and the majority of the equipment had been specified. Conveyors that were destined for this project had not yet been built but were in the design process. Some of the machinery used was imported equipment that required retrofitting.

CDSL was awarded the contract for Project Management and Electrical Design Engineering. As CDSL built the scope of work and contractor bid documents, problem areas were identified and changes to the layout were made. The scope of the project was very broad, and included all aspects of ice cream production from minor ingredient storage, through process, into packaging, then through the Hardener and final case packing. To meet the end customer needs CDSL was required to support all phases of the installation through project completion.

With the start up of the new equipment, deficiencies in the existing system were identified that impacted the new installation. The client and co-packer determined that production rates could not be met with this bottleneck. A team representing the co-packer and CDSL was formed to determine what upgrades of the existing system needed to be made to satisfy the client’s parameters. The team brainstorming identified mechanical and electrical issues. It was then established that the priority was to be placed on electrical controls upgrades. CDSL’s Electrical Engineer assumed this task and with support of the co-packers maintenance team resolved the identified issues.

With this joint effort all production levels in the affected area were increased dramatically allowing the customer to meet peak season demand. This was a great opportunity for CDSL to do what we do best, becoming part of our client’s team and work side by side towards the common goal.

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## Project Experience – Klochner Bartelt T21 Integration

CDSL has developed a system upgrade for a Klochner–Bartelt vertical auger filler. The upgrade eliminates the Klochner T21 operator interface and provides control of the filling equipment via the existing bagger HMI. This integration provides the machine operator all bagger and filler controls via a single standardized point of control.



Auger / Agitator Controls

The upgrade eliminates the individual hardwired selector switches associated with the auger and the agitator controls by incorporating the functionality into the existing bagger HMI. The T21 emergency stop and reset pushbuttons are wired to the existing controls on the bagger panel. The system servo interface module provides communication of operator entered data from the PLC to the vertical auger servo drive controller. Standardized and tested PLC logic provides servo communication upon demand whenever operating data is changed by the operator.

Optionally this upgrade includes replacement of the agitator DC drive with an AC variable frequency drive.

The T21 Integration provides the following benefits:

- Simplified operator interface.
- Ability to include filler information in recipe based data
- Ability to track filling performance
- Reduced training requirements based on standardized interface
- PLC based system is more easily supported by maintenance staff

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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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