Flexible and Scalable Automation solutions for Craft Brewing/Distilling
Craft Brewery Challenges

- Time to market
- Quality
- Flexibility
- Costs
- Environmental Efficiency
- Health, Safety and Security
Common Concerns for Craft Brewery Automation

How do I ensure Security to protect my process?

How do I keep “Craft” in my Craft beer if I automate?

We don’t have engineers on staff, how do we maintain such a system?

We can never afford a system like that!
Where will Automation in your Craft Brewery be most beneficial
Look for Labor Intensive processes

Brewhouses run in Batches and Cellars, Chillers and other utilities are needed 24/7

Where do you control the process from while performing brewery tasks?

Manual Data Entry and Analysis?

Ensure data can be used by your processes
Flexibility to meet current demands and grow with your process for today's needs and tomorrow's plans

• Flexible Automation systems need to be seamlessly scalable and flexible for all areas of the Brewery/Distillery
  • Centralized Operations helps standardize on consistency in the process.
  • Packaging (Cans, Bottles, Keg….) The key item to get the beer to your consumers.
  • Boilers, Chillers and Utilities. - Mandatory to heat, cool and ultimately package the beer for the consumers.

• As the brewery grows your control system must be flexible enough to grow with the your demands. Having a scalable and flexible automation system ensures that you have the capacity to grow to meet your needs for the future without reengineering your system.
Cellars and Utilities run 24 hours a day where Brewhouse runs are made in batches.
Inline Instrumentation is a nice to have but you can make control decisions based on manual data gathering.
Cellar Controls with automatic sequencing, recipe formulas, trending and reporting.
HMI Options – designed to meet your needs – much more than just a visualization software

From machine-level visualization all the way to the high-performance SCADA system, The efficient tools cover the entire engineering and visualization software spectrum – integrated across all performance classes!

Basic HMI
Panel-based
Optimum in price and performance for simple visualization tasks

Advanced HMI
Panel-based
High level of user-friendliness for demanding visualization tasks
PC-based single-station systems
For data-intensive and complex visualization tasks

SCADA
PC-based multi-user systems
For processes, production sequences, machinery, and plants in all industries, even cross-site with web clients

Application complexity and system performance
low
high
Operator Control and Monitoring via the Internet/Intranet:

- Operate, Control and Monitor the entire brewery via mobile devices
Brewhouse automation
CRAFT Brewing Control Systems

Scalability

Flexibility

Cost saving
Scalability

Power for what you need today with flexibility for the future.

What’s new?
Fully integrated Control System and PC into one module reduces footprint and eases implementation.

Expansions are always possible
Fully Integrated Weigh Scales, Variable Frequency Drives and I/O. Easily expanded to other areas of the brewery as needed.

Ready for today, prepared for tomorrow
Start automation tasks today and the system can grow with your brewery instead of starting over
HMI Screen showing complete Brewhouse and running sequence
Automation highlights for a Craft brewery

Recipe Management
- Parameter Management for different recipe formulas
- Automatic Sequencing of your control strategy and selectable control strategies based on recipe.
- Automatic weighing and dosing of Ingredients is possible but manual dosing of ingredients are also possible and recorded in Control system.
- Simulation of Controls before ever producing beer can greatly simplify startup of your automation system.
Real Production
Make sure your brewery is running – always!

**Security Updates**
Updates do not affect the running brewing process.

**Virtualization**
Reduce IT expenses while boosting efficiency and agility for your brewery.

**Safety Functions**
Safety Functionalities to safeguard your brewing staff. Safety Functions are mandatory in control systems.

**Remote Monitoring**
Monitor and Control all brewery operations remotely on any device.
Trending and Reporting

**Trending**
- Immediate view of production data
- Store data for later
- Analysis and transfer to other systems
- Longtime data archiving

**Reporting functions:**
- Changelog
- Step by Step Batch Reporting
- Inventory Management
The key to automation is to have a plan for the future of your brewery or distillery.

Automation Projects can be done with In House resources and attend training or help from the local supplier.

You can Hire a Solution Partner or Systems Integrator

Purchase Automation with OEM Supplied equipment

Basics of Training
- Brewer Orientation to the system
- Recipe-, Order and Batch Management
- Alarm system, Trending, Reporting
- Admin and diagnostic functions
Intuitive operation, greater flexibility, the beer is flowing "automatically with Siemens"

- Productivity increase due to improved automatic production
- Space saving due to integrated safety and new drives
- The beer can be brewed identically at any time
- Considerable reduction in workload for brewery masters
- Integration with MES System
“As you realize how important it is to have a consistent product Automation comes more and more important” – Alec Mull

“Automation gives the brewer consistency to develop a solid product that can be scaled up to the big brewery” – Patrick Zambon

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