

Providing Creative Solutions



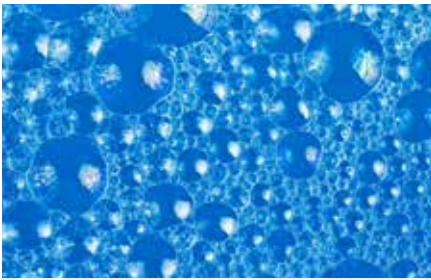
AGRICULTURE



BIOFUELS



ENERGY



FOAM CONTROL



FOOD



INDUSTRIAL



PET FOOD



PULP & PAPER



WATER TREATMENT



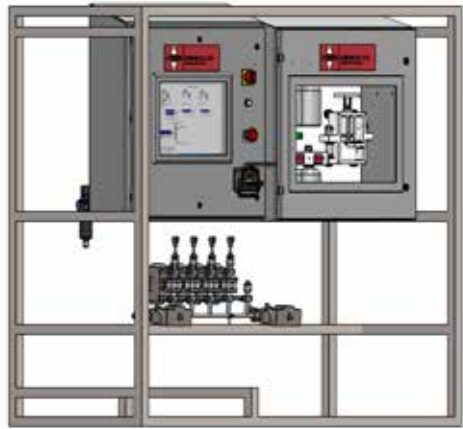
**CHEMICAL CO.**

**EQUIPMENT TECHNOLOGY SOLUTIONS**

# Best Available Equipment Technology

## HYDRI-VISION

Hydri-Vision is patent pending technology for collecting, analyzing and documenting concentrations of cleaning, sanitation and intervention chemistries. Food safety, verification and validation as well as quality of an applicable finished product are foundational to this creative solution.



### APPLICATIONS

- CIP or COP
- Water Treatment
- Filtration
- Reuse, Reclaim or Batch
- Chillers
- Soak or Dip Tanks

### BENEFITS

- Performance Check Tool
- Eliminate manual titrations and record keeping
- Regulatory compliant documentation
- Robust and flexible technology

## HYDRI-PRO

Hydri-Pro is patent pending technology for allocating and dispensing cleaning, sanitation and intervention chemistries. Simplicity of its design as well as the accuracy and speed of chemical delivery is foundational to this creative solution.

### APPLICATIONS

- CIP or COP
- Stand Alone
- Batch
- Formula Recipe

### BENEFITS

- Accuracy of Chemical Use per Recipe
- Speed of Chemical Delivery
- Regulatory compliant documentation
- Robust and flexible technology



## TELEMETRY

We offer customer packages through Anova and Endress Hauser to monitor all liquid product levels throughout a customer's plant. Significant opportunities for enhancing transportation, logistics and order fulfillment efficiencies as well as time and cost reductions for managing product inventories are foundational to this technology.

### APPLICATIONS

- Bulk Tank Farm
- Secondary Container Storage Area
- In Process Day Tank

# Best Available Equipment Technology

## HYDRI-THERM

Hydri-Therm is patent pending technology for on-site food grade liquid product blending.



### APPLICATIONS

- Processed Food
- RTE
- Cultured Products
- Pharmaceutical
- Commercial

### BENEFITS

- Eliminate handling of anhydrous food grade products
- Stability of liquid food grade product blends
- Regulatory compliant documentation
- Consistency of finished product quality
- Robust and flexible technology
- Continuous Cook Application

## HYDRI-BLEND

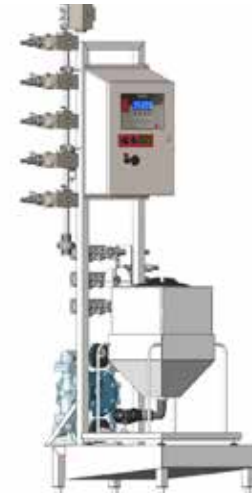
Hydri-Blend is patent pending technology for on-site liquid chemical blending.

### APPLICATIONS

- Formula Recipe
- Make Down

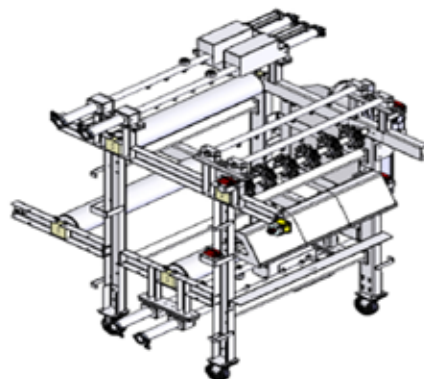
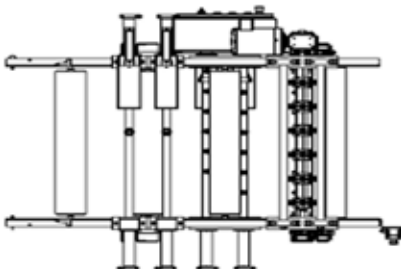
### BENEFITS

- Includes PLC/ethernet communications with real-time data
- Remote access capabilities
- Rugged stainless steel construction is built to last
- Patent pending



## HYDRI-FLEX

Hydri-Flex is a layered program for belt and conveyor system rinsing, cleaning and sanitizing, including patent pending models for specific applications.



### APPLICATIONS

- CIP or COP
- Stationary
- Mechanical

### BENEFITS

- Configurable and Customizable
- Performance Check Tool
- Eliminate operator responsibilities
- Robust and flexible technology

# Product Control & Delivery Systems

## PAA EQUIPMENT OFFERINGS

### Package Consists Of:

- DAC System / Aegis II PAA Analyzer
- Twist Clean Strainer
- Universal Control Cable
- Delta or Sigma Model Metering Pump
- PVDF Backpressure Valve
- Pressure Relief Valve
- 20 - 2,000 PPM
- 100-240v operating voltage (50-60 Hz)
- Variable frequency pump output
- LAN+WiFi communication interface
- Bluetooth access to local programming
- Dual expansion slot 4-20 mA input
- Connection compatibility to H2Tronics or Hydri-Vision (for monitoring & reporting)



## CCR+

CCR+ is a chemical concentration controller and recorder as well as a next generation offering to Hydriter CCR 500. Simplicity of its design as well as the flexibility to set control with either conductivity or time is foundational to this creative solution.

### APPLICATIONS

- CIP or COP
- Tunnel, Form, Case or Egg Washers
- Reuse, Reclaim or Batch

### BENEFITS

- Charge or Boost Capabilities
- Conductivity Probe Compatibility
- Quick Install and Commission Process
- Robust and flexible technology

# Product Control & Delivery Systems

## FEED+

FEED+ is a chemical allocation and dispensing system as well as a next generation offering to Hydriter 6 Button Feed. Simplicity of its design as well as the flexibility to set control with either time or a recycle timer are foundational to this creative solution.

### APPLICATIONS

- Chemical Transfers
- Tunnel, Form, Case or Egg Washers
- Portable or Secondary Container Filling

### BENEFITS

- Time and Date stamp for each output activated
- Time stamp for how long each output is activated
- Quick Install and Commission Process
- Robust and flexible technology

## FEED-FLO+

FEED-FLO+ is technology for recipe based chemical allocation and dispensing as well as a next generation offering to the Membrane Minder. Simplicity of its design as well as the recipe flexibility are foundational to this creative solution.

### APPLICATIONS

- CIP
- Stand Alone
- Batch
- Formula Recipe

### BENEFITS

- Time, date and destination stamp for each recipe activated
- Quick install and commission process
- Robust and flexible technology

## OPTI-FLO

Opti-Flo is a food grade process aid or ingredient flow measurer and controller as well as a next generation offering to Hydriter Ex-Zact Flo. Simplicity of its design are foundational to this creative solution.

### APPLICATIONS

- In Process Dispensing
- Bulk Dispensing
- Day Tank or Secondary Container Dispensing

### BENEFITS

- Quick Install and Commission Process
- Highly accurate
- Robust and flexible technology

# Industry Specific Hardware

## IN-LINE STATIC MIXERS



For those customers that would like to feed product to application areas via water-dilution, Hydrite can propose an in-line, static mixer to ensure that the product delivered is uniform and consistent. The in-line, static mixer ensures that the defoamer/antifoam will mix with the dilution water. This equipment will reduce “gelling” and lower maintenance costs as the lines should require less care.

## ENTRAINED AIR MONITORING

We have partnered with Emerson to bring unparalleled accuracy in monitoring entrained air within a given fluid system to more accurately dose defoamer/antifoam. This is the most accurate method available to better control dosing and provide efficient foam control with the operating system.



### BENEFITS

- Immediate data
- On-line dosing control feedback loop
- Reduced maintenance
- Cost control

# Wastewater Feed System

## POLYMER BLENDING SYSTEM

The ProMinent ProMix™ is a pre-engineered polymer mixing system made for the water and wastewater markets. Designed as an in-line unit, the ProMix™ can be customized to meet most liquid polymer applications utilizing tubing or diaphragm pump technologies depending on the application requirement or customer preference. The unique mixing chamber allows for complete make-down of the neat or diluted polymer to deliver an optimized injection of chemical.\*

### BENEFITS

- Open design for easy maintenance
- Adjustable auto flush settings
- Remote start/stop
- LCD display with touch-pad control
- 4-20 mA input to pace pump



## POLYMER FEED SYSTEM

The PolyRex is a turn-key automatic feed system for batch-wise preparation and metering of polymer solutions from powdered or liquid chemicals. The PolyRex feeds an adjustable flow of powdered or liquid polymers and an adjustable flow of preparation and dilution water. The PolyRex uses a step-by-step mixing system to effectively hydrate and mix the polymer to a homogenous and activated polymer solution.\*



### BENEFITS

- Automatic water control
- Preparation/stock tanks in various sizes
- User friendly control logic
- Variety of bulk bag handling systems

# Providing Creative Solutions

## About Hydrite

Established in 1929, Hydrite Chemical Co is one of the largest chemical manufacturers and suppliers in North America. Hydrite was built upon a backbone of chemical distribution and later diversifying into specialty chemicals to offer a full chemical supply package to each of our customers. We work hard in providing creative solutions to our customers to deliver plant efficiency and an improved operating profit for those customers.

A key offering to our customers to create efficiency for their operations is the delivery of chemicals to the application points. The correct application of our chemicals is critical to optimal performance and we want to make that delivery accurate and efficient. We will come on-site for a survey of where the chemicals should be stored, where the dosing system should be installed, how the dosing will be measured and monitored and lastly, how it will be applied at the point of application. The delivery systems are custom designed to each customer to ensure that the best available technology is utilized.

## Our Primary Focus



- Agriculture & Farming
- Biofuels
- Energy
- Foam
- Food
- Industrial
- Pet Food
- Pulp & Paper
- Wastewater



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