

## **B&R PLC RETROFIT FOR STRUCTURAL FOAM MACHINES**

**For machines currently equipped with Maco 8000 or Siemens TI 505 processors**

Sick of chasing obsolete and hard to find PLC components? Tired of the inflated costs associated with replacing outdated and "mature" products?

Uniloy is pleased to announce a controls upgrade for those Maco 8000 and Siemens TI 505 electrical controls on your Structural Foam machine. We are offering the same B&R system utilized on new machines. We have found these systems to be reliable and the benefits extraordinary.



**Main Electrical Cabinet**



**Heat Station (Front or Rear)**

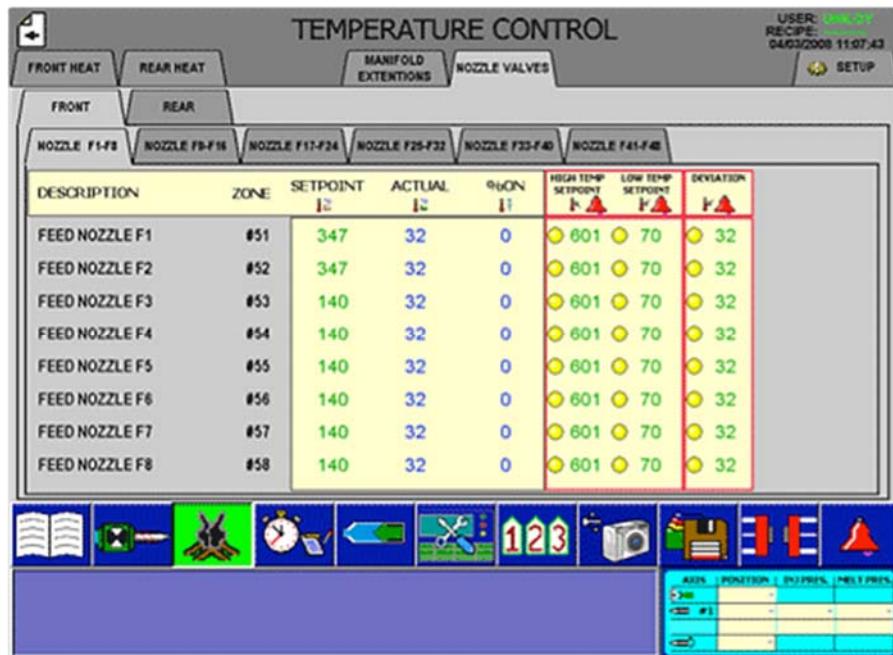
## Section 1. Benefits

**Replaces obsolete Maco 8000 and Siemens TI 505 systems.** Replacement parts have been getting harder and harder to find. Most of the parts you can find are either refurbished or used. B&R parts are stocked at Uniloy and two B&R facilities in the United States.

**Lower cost** to maintain as the prices for the older components have skyrocketed and almost quadrupled. Linear motion and proportional control is now handled direct through the processor eliminating the expense of a delta card.

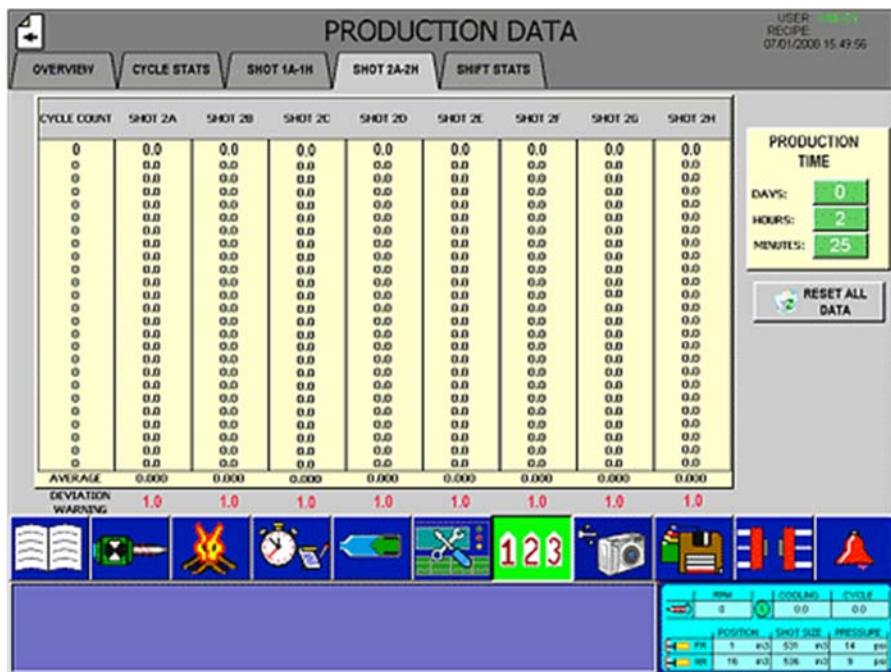
**Modern processors** allow much faster scan rates for quicker, more consistent response to changing inputs. The 1 millisecond response time means faster screen updates, improved precision, accuracy and repeatability.

**Navigation** is faster and easier. Screens are bundled and associated together for quick and easy access through tabs.

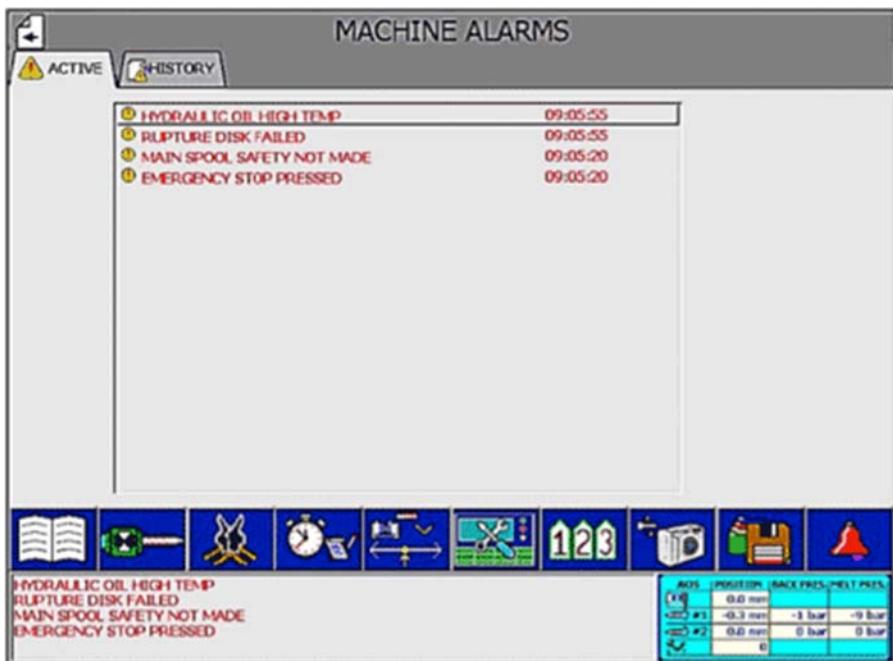


**Ethernet connection** provides local area networking which means you have the ability to link your machine controller to other computers for the purpose of production scheduling, material tracking, or supervisory control. The software required to perform these functions is the customer's responsibility.

**Improved data collection** and storage allows for expanded historical data management files. You will be able to identify trends and best practices while monitoring your productivity.



**Expanded diagnostics and alarms** help the operators understand what needs attention or correction and makes it easier to find problem areas. This reduces the impact of machine downtime by decreasing maintenance and repair time.



Compact flash memory equates to no hard drives to wear out.

USB port for program uploads and print outs. Unlimited recipes can be stored on USB memory sticks and easily transferred to the processor.

**Non-contact clamp safety door switches** are uniquely coded providing class IV maintenance free operations.

**Larger monitor** has a 15", color, high resolution touch screen and it can be mounted on a swing away arm. It is easier to see and has user friendly graphics.



## Section 2. Standard Features

PLC Components	Power Components	Machine Components
Central Processing Unit	Relays	Pressure Transducers
Human Machine Interface	Relay Sockets	Linear Position Transducers
Input Modules	Power Supplies	Non-Contact Clamp Door Safety Switches
Output Modules	Transformer	Front Heat Cabinet
Thermocouple Modules	Power Connectors	Rear Heat Cabinet
Positioning Modules	Terminal Strips	Operators Station
Communications Modules	Solid State Contactors	

### \*\*Notes\*\*

1. The quantity of PLC modules required is based on the quantity of inputs, outputs and heat zones.
2. Solid state contactors are part of the standard package and we highly recommend replacing environmentally unfriendly mercury contactors. However they can be omitted from the package for cost saving purposes.
3. A new swing away arm mounted operator's station, as pictured above, is recommended. However to save money sometimes the new HMI can be mounted in place of the existing unit.
4. For all Siemens replacements the existing front and rear heat cabinets can be utilized. For Maco replacements the choice to use the existing cabinets may not be available.

If you have any questions about this product offering please contact your local Uniloy Parts Representative.