



Filler Machine Control

Beaverton Foods and Horner's
Micro X5 & SmartStix I/O



Beaverton Foods, Inc.
America's Finest Gourmet Condiments since 1929

Filler Machine Project, Hillsboro, Oregon



Current panel where the old SLC500 is taking up too much space



Current panel where the manifold and solenoids are housed, being controlled by physical timers



Current air cylinder actuated pistons



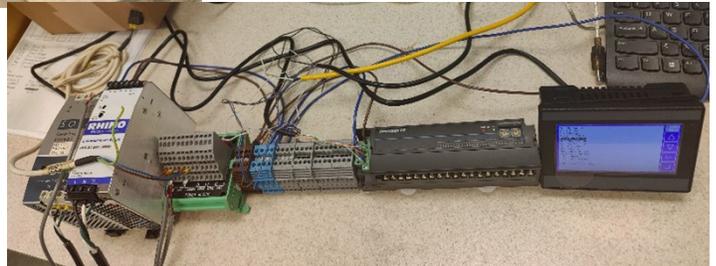
Horner Micro X5 controller & SmartStix

OPPORTUNITY

Beaverton Foods has been a customer of Horner Automation's for over 6 years. Their filler machines have been in operation for 20 years. They still use SLC500 rack PLC's (which are work horses), but they need to set up the machine for future upgrades and the old control equipment will not cut it. Beaverton's outdated machines need to be updated due to the hardware not being supported anymore and the cost for replacement hardware and accompanying software is not cost effective.

CHALLENGE

The filler machine uses air actuators like pistons which are controlled by solenoids. With the current air cylinder actuated pistons, they can't get proper even fills due to many factors including the pressure regulation of the cylinder. They need to have better control of the fill cycle since they are trying to fill less viscous liquids in small jars.



X5 and SmartStix Remote I/O currently running the system from a bench due to supply chain issues with the air manifold and solenoids



Current operator panel where X5 will be placed



Agriculture

- Reduce energy consumption
- Increase overall productivity

Building Automation

- Improve occupant comfort
- Economical operation systems

Material Handling

- Minimize HMI inefficiencies
- Track/log/catalog data

SOLUTION

The answer is to use servo motors to get even fills. Horner All-in-one controllers give us the flexibility to upgrade our equipment for the future. Another feature that Horner PLC's offer is the integrated HMI, which makes our operators more efficient, offering the ability to have recipes for the different products we run on these machines. The All-In-One controllers that Horner offers, make the upgrade more cost efficient for the company since we have a total of 4 lines that use these outdated fillers. We will do a test run on one machine so we can work out the bugs and then upgrade the rest.

TESTIMONIAL

"Horner offers free, easy to use programming software. They provide cost effective options for hardware and the ability to integrate into older machines."

~ David Gonzalez, Beaverton Foods

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