Erie Tilt Mixer PLC Control System

Service Bulletin

Erie Strayer Company is proud to offer our Mixer PLC Control System that digitally controls the mixer hydraulic functions. This system has built-in features to assist with mixer maintenance and reduction of down time. The ERIE Mixer PLC control is paired with the Parker D-91 hydraulic control valve, providing the customer with a “state-of-the-art” mixer control that is designed to optimize the performance of the Industry Leading ERIE Tilt Mixer.

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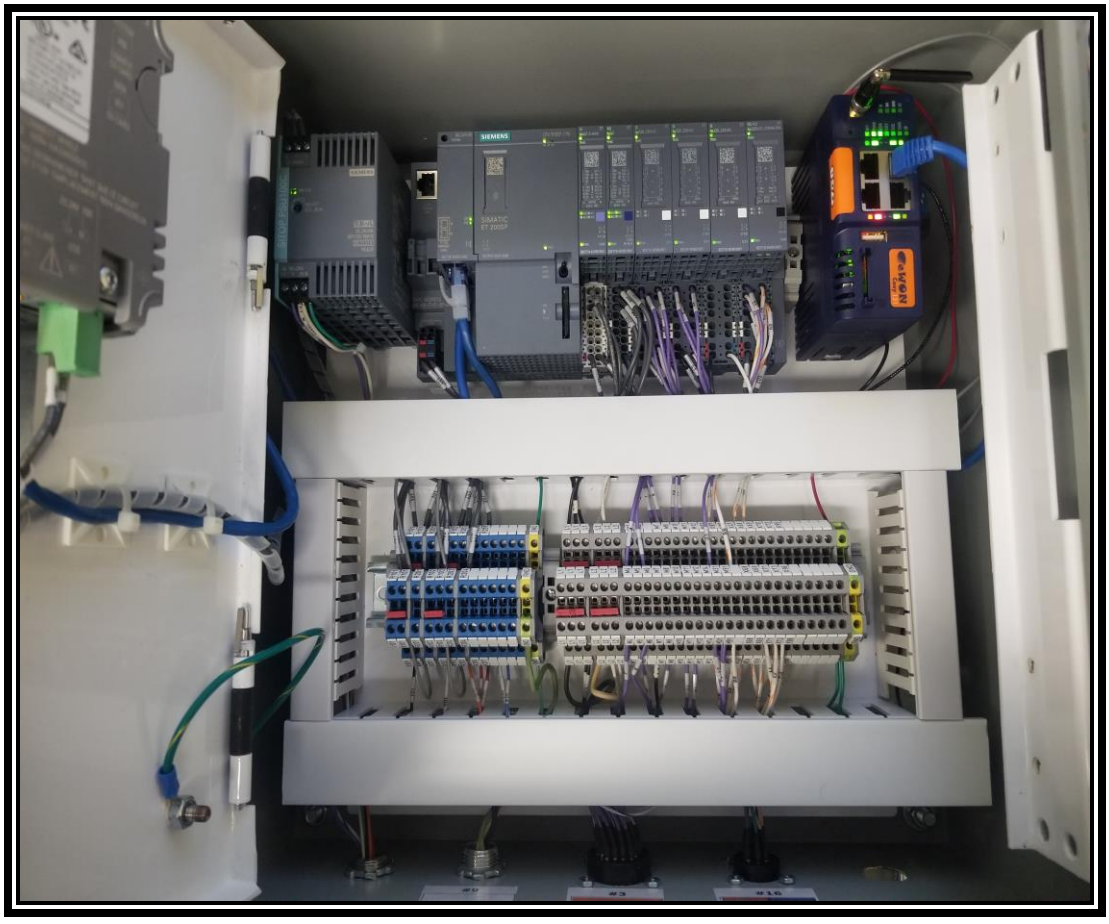
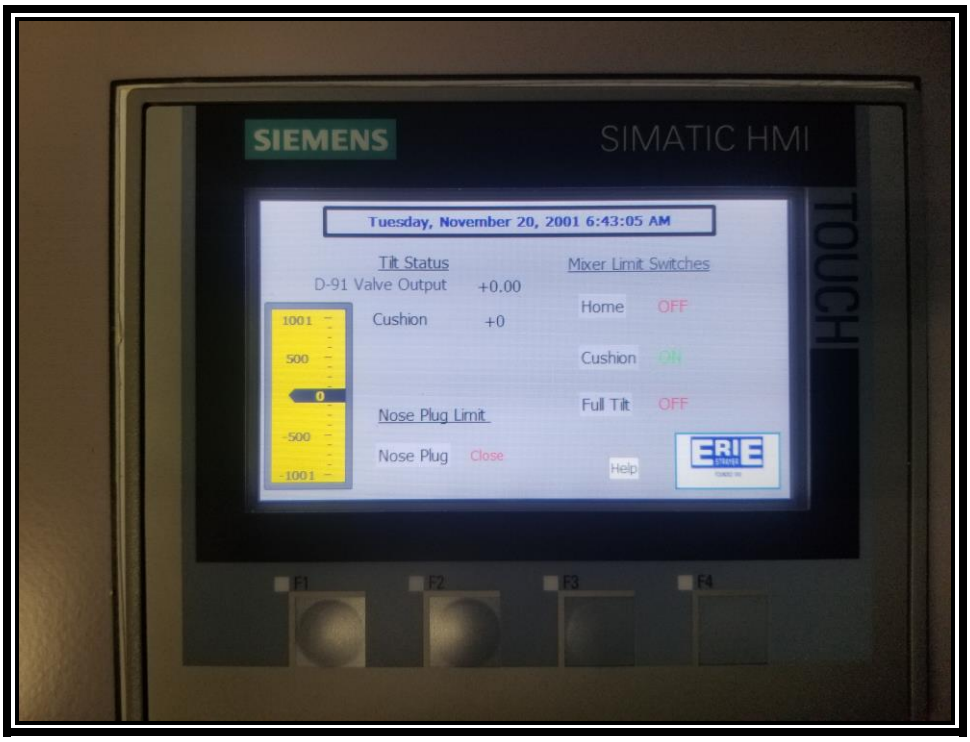
Main Features of the Mixer PLC Control System

- Mixer diagnostics
- Main operation screen that provides live feedback of the mixer status
- Mixer & Hydraulic run time and maintenance hour meters
- Ability to adjust and manually control mixer tilt operation
- Siemens modular, rugged ET200SP I/O controller
- Siemens comfort HMI (Human Machine Interface) touch screen
- Remote access to the mixer control system
- Highly reliable and simplified design
- Ability to retrofit on existing tilt mixers



Mixer Status Screen Provides Plant Personnel with Live Feedback of the Mixer Status



The main status screen shows real time mixer feedback of mixer tilt functions, valve voltage and mixer position

Rugged Siemens ET200 modular I/O system

Digitally controlled Parker D-91 hydraulic valve

Mixer & Hydraulic Run Time & Maintenance-Hours Meter Screen

With the integrated run time and maintenance meters, the PLC system keeps track of the total operating hours and will alert plant personal when mixer maintenance is due.

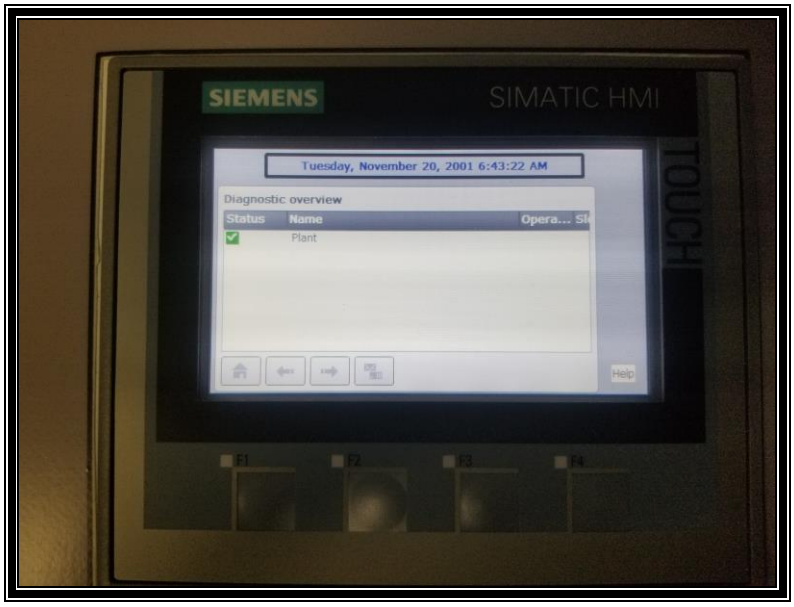
Mixer Lube Control Screen

With the mixer lube control, the maintenance personnel will be able to fine-tune the amount of lube as well as the intervals in which the mixer bull gear receives lubrication. This will maximize gear life.

Mixer Maintenance Control Screen

On the mixer maintenance control screen, plant maintenance personnel will have the ability to operate and adjust mixer functions such as tilt, return, cushion and nose plug right at the mixer control box.

Mixer Diagnostics Screen



On the mixer diagnostics screen, the PLC will monitor mixer and hydraulic functions and will alert plant personnel if the PLC senses an issue with the tilt control valve, mixer wiring or hydraulic pump functions

Mixer PLC Controller Installed on A Ready Mix Plant

In conclusion, the Erie Strayer Mixer PLC controller is designed to operate the ERIE Tilt Mixer faster, smoother and more reliably. This complete, rugged package is designed to eliminate downtime, simplify mixer maintenance, and allow the customer to optimize the performance of their Erie Tilt Mixer. The Erie mixer PLC controller is also available as a retrofit to existing tilt mixers. Feel free to contact Erie Strayer for more information.