

Discrete Material Handling Coil Handling



This system controls the distribution and storage of steel coils between processes. These coils are transported via coil handling cars, which run on railroad tracks. The cars have on board controls, shown below, which direct the car's motion, receive dispatch commands from a central traffic controller and tracks the car's position. The car's on board control is designed to withstand high temperatures, vibration, and shock loads. The car's position is determined with encoders.

Communication from the traffic controllers to the cars is accomplished with RF transmission over the car's power rails.

The controls for this project are based on GE PLC's.

For this application, Fenton Systems provided the following:

- System Design
- Enclosure Design and Manufacturing
- System Diagrams and Drawings
- PLC Logic Implementation and Test
- System Manuals and PLC Logic Documentation
- System Startup

