

Single Station Ammunition Servo Press

Challenge

John Henry Foster Company was contacted to design a hydraulic and electronic system for precise control of a single bay ammunition press. The existing system relied on manually operated hydraulic control valves, requiring extensive operator involvement and producing high scrap percentages as well as high downtime rates.

Goals

- Electronic Control of Force and Position within specifications
- Reduction of Downtime
- Reduction of Scrap
- Electronic storage of all Press Data

System Features

- Allen Bradley Micrologix PLC platform
- RSView32 Interface on Industrial Touchscreen PC
- Delta RMC70 Motion Controller
- Microsoft Access Database for Press Data Storage and Sequence Recipe Storage

Project Successes

- Scrap rates down from 5% to less than 1%
- Increased Production
- Increased Quality
- Completed within budget and within schedule requirements

