



EFFICIENCY

CASE STUDY

A Retrofit Solution for Enhanced Efficiency

Situation

A long-time customer of QSI Automation was facing challenges with their outdated hydraulic systems on injection molding machines.

The plant was almost at capacity for electricity usage, and the owner was looking for ways to improve efficiency and reduce costs.

QSI Solution

QSI collaborated with Morrell Group (now Evolution Motion Solutions) to develop a retrofit solution utilizing Bosch Rexroth's Sytronix technology to supply hydraulic power for the mold clamp, injector slide and injection and extrusion axes.

Using Sytronix on their in-house Atlas machine builds, the QSI team was familiar with the technology and knew it to be reliable. The retrofit of three machines, carried out on the customer's shop floor and taking four days to complete, involved removing the outdated portions of the machines and installing the new technology.

Results

The relationship between QSI and the customer, which began with service on used equipment and evolved throughout the years, was further strengthened by the benefits and success of this project.

- Annual energy cost savings of nearly \$15,000
- 14% more parts produced per machine
- Quieter operations
- Ability to add other equipment to the facility without significant enhancements to the power system

QSI Automation crafts custom automation and manufacturing solutions, including plastics machinery, vibratory feeders, mold design & build and custom machining. Contact us for information about our solutions.

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