

# Project Brief...

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## Feed Mill Automation

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QSPEC Solutions' client is a major supplier of beef cattle. The client wanted to increase the facility's capacity from 40,000 head to 65,000 head, but could just barely make enough feed to keep up with the current volume.

The solution was to integrate an S-88 compliant batch system with a mixer and a truck-mounted scale system. A feed schedule was created for each feed pen based on the age and the growth rate of the animals. A feed batch was mixed and loaded into a truck, which was then routed to the appropriate pens. The amount of feed was monitored with an in-truck scale system as it was placed in the feed bunks and the actual results were transmitted to the server. Upcoming feed preparation amounts were fine-tuned based on actual amounts being used.

The manpower and time required to make batches were both significantly reduced.

Increased accuracy and consistency with the feed saved the client feed costs and resulted in better conversion rates and enhanced animal growth. The system is operating 24 hours a day / 7 days a week.

### Solution Overview

#### Requirements

Increase the capacity of the existing feed mill to allow two-fold increase in herd size.

#### Solution

Integrate an S-88 compliant batch system with a mixer and a truck mounted scale system.

#### Results

Average feed time decreased from 12 to 7 hours

Reduction in labor costs

Increased accuracy and consistency in feed mixing

Reduced feed costs

Better conversion rates and increased animal growth

Usage and SPC reports

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# QSPEC Solutions

Automation Consulting and Technical Services