Auto Control Systems was approached by the owners of a turn-key six storey grain processing facility to provide automation to allow the plant to incorporate four continuous production streams. The new processing mill was to utilise state-of-the-art PLC equipment on an entirely Ethernet backbone.

CASE STUDY

AutoControl Systems

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AutoControl Systems

The Problem

The owners wanted ACS to create a bespoke automation solution to allow maximum production, whilst working within hazardous areas design requirements for the facility.

The Solution

Auto Control Systems was responsible for the complete design, programming, installation and commissioning of the system, including the requirements for a minimum Category 3 Machine Safety system.

Our Design team and senior Engineers worked cohesively and tirelessly to produce a solution that met all requirements for this exciting new facility, allowing lateral thinking and innovative design to take precedence and deliver a dynamic an industry leading solution to this client.

The technology Auto Control Systems used included:

- Allen-Bradley Guard Logix PLC
- Citect SCADA
- Allen Bradley Point and Safe Point IO
- Allen Bradley Powerflex 525 Drives
- Allen Bradley Stratix Ethernet
- Allen Bradley E300 Electronic Overloads
- Hazardous Area Design
- TUV Certified Machine Safety

Return on Investment

Auto Control Systems delivered this extensive project on time and to budget, resulting in a bespoke design solution that facilitated high production rates with limited probability of downtime.

Considerable energy savings.

- By fully automating the four continuous production streams, the plant is able to produce an exceptionally high yield at a fast pace, with reduced energy expenditure.
- Utilising the Ethernet backbone allows the plant to be operated by fewer staff members, reducing overheads and increasing profits.

Flexibility and adaptability

- Ability for the processing plant to experience significant growth using the existing systems and inclusion of devices that allow new applications to be installed.
- Ongoing access to out team of experienced engineers who remain available to troubleshoot improvement initiatives and growth potential.