

CASE STUDIES

Food Processing & Packaging Plant

Industry: Food and Beverage

Duration: 1 Month

Value: \$180,000

The Situation

Our client engaged us to deliver a new production line incorporating multiple existing conveyors that varied in size, condition, and configuration. The integration required a purpose-built electrical control panel and control system to resolve inconsistencies in plant flow and achieve stable, synchronised operation.

The installation was further complicated by significant spatial constraints and the need for precise process sequencing to maintain throughput and product handling standards. The complete system required integrated safety architecture, a purpose-built control panel, and full compliance with Australian safety standards, delivered within a strict deadline, under a single electrical and automation contractor.

What We Delivered

- Developed a custom production layout based on verified site measurements and existing conveyor geometry
- Produced detailed CAD documentation and completed on-site set-out to accelerate approval and installation accuracy
- Coordinated and managed mechanical contractors to install plant components within the defined operational footprint
- Engineered and constructed a purpose-built control panel incorporating PLC automation, machine safety, and integrated speed management
- Implemented PLd Category 3 functional safety systems in compliance with AS/NZS standards
- Designed structured cable routing to optimise operator access, safety, and maintainable workflows

The Result

A space-optimised, fully integrated production line that leveraged existing assets while enhancing throughput, workflow efficiency, and safety compliance. Delivered within a tight production time frame constraint and complex sequencing conditions, the project provided a high-performance production upgrade without significant capital investment.



Full Line Integration Using Existing Equipment



Space-Optimised Design



Increased production output by 2 tonnes an hour

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