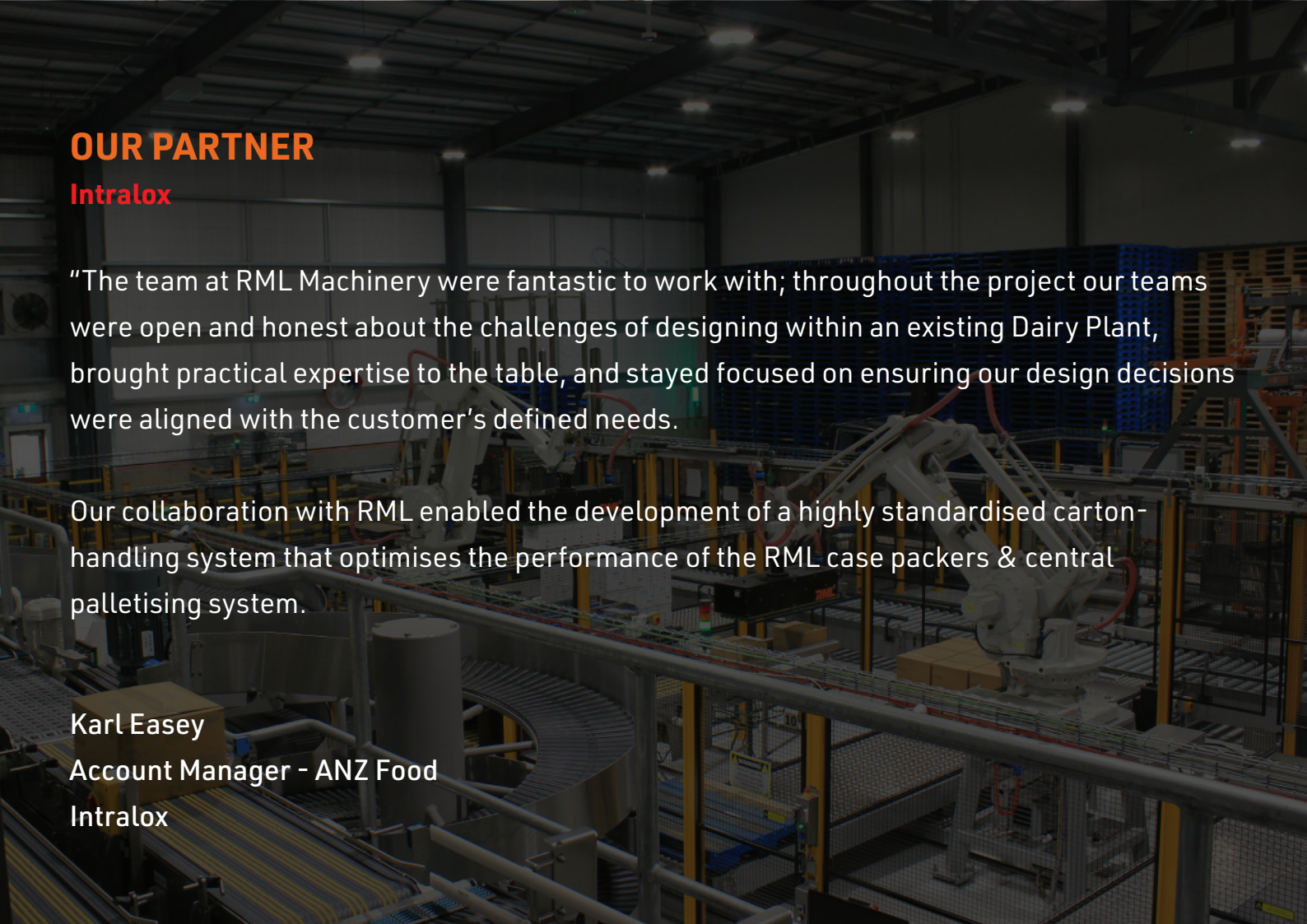




Developing an advanced automation system for a dairy industry leader with Intralox

When we were tasked with developing an extensive palletising and case packing system for The Tatua Co-operative Dairy Limited, we needed partners that we could trust. This is why we engaged Intralox, who brought deep conveyance expertise to the project, working closely with us and the customer to design standardised conveying solutions that integrated seamlessly with our case packers, infeed systems, and palletisers.

Intralox are the world's leading conveyance solutions provider, with a wealth of specialist knowledge across belt selection, accumulation, metering and carton/conveyor technologies. Their role was to define conveying requirements, propose layout and component standards, and supply the belting and conveying elements that would connect and complement our equipment.



OUR PARTNER

Intralox

"The team at RML Machinery were fantastic to work with; throughout the project our teams were open and honest about the challenges of designing within an existing Dairy Plant, brought practical expertise to the table, and stayed focused on ensuring our design decisions were aligned with the customer's defined needs.

Our collaboration with RML enabled the development of a highly standardised carton-handling system that optimises the performance of the RML case packers & central palletising system.

Karl Easey

Account Manager - ANZ Food

Intralox

How Intralox drove the project forward

Commercial qualification & requirements capture: Intralox worked with RML and the customer to clarify performance targets, space constraints and long-term operational needs prior to detailed design.

Design collaboration: Intralox provided layout design, technology guidance and multiple conceptual options where appropriate so we could evaluate technical fit and cost. They advised on civil, space, and speed trade-offs and the operational implications of alternate approaches.

Specialist input: For each conveyor (accumulation, metering, infeed, transfer, etc.,) Intralox recommended belt series, sprockets and carry-away designs customised to the application and to the wider system, enabling consistent component choices across the project.



The solution

A deliberate focus on standardisation formed the backbone of the conveying strategy. Intralox and us defined a stringent conveying design standard so common conveyor types could be replicated across the plant:

- One core design for key conveyor types was developed and optimised as a pilot, then replicated multiple times (economies of scale in manufacture, simplified spares and faster installation).
- Belt series and component uniformity reduced complexity (consistent widths, sprockets and drive elements) while maintaining the required performance for differing pack formats.



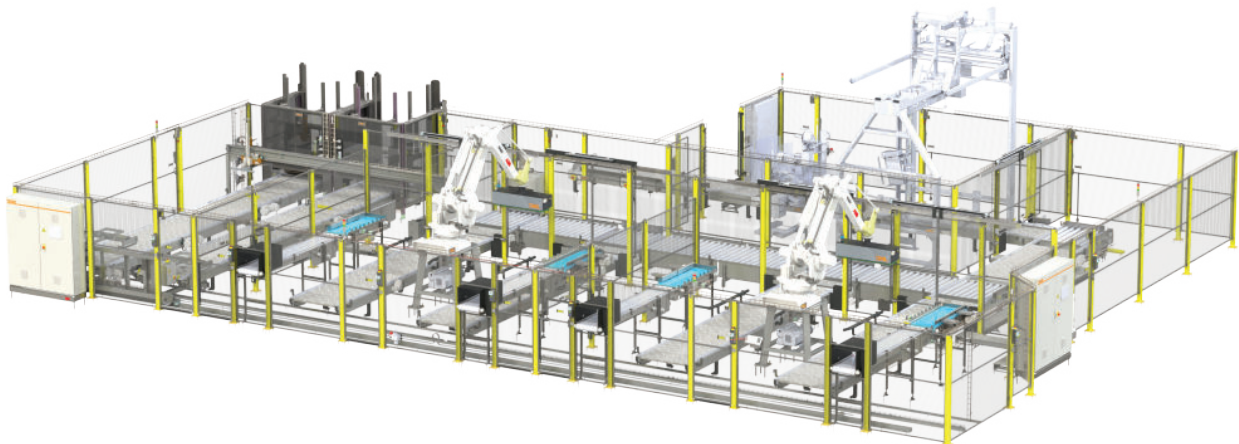
The solution continued...

Where two viable approaches existed (for example, different ways to route cartons into palletiser lanes), Intralox supplied clear technical comparisons so RML could cost and present options to the customer. The team ultimately chose a switching/splitting solution that lowered speeds on the infeed systems and allowed us to fabricate the reduced-speed infeed conveyors in-house, cutting costs without compromising functionality.



Measurable improvements seen by the customer

- Predictable performance delivered through standardised conveyors and repeatable designs.
- Reduced system cost by enabling us to build portions of the infeed conveyors and by leveraging component standardisation.
- Faster manufacturing, ordering and installation due to repeatable conveyor builds and fewer unique parts.
- Simplified maintenance and spares management from a uniform belt series and components.



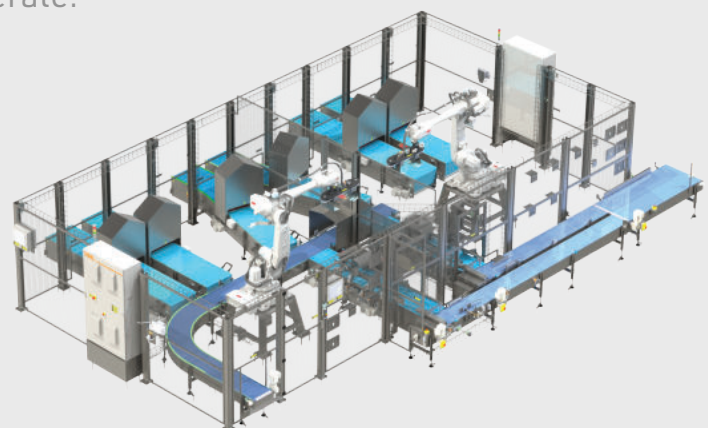
Above: Render of the extensive Palletising System developed for Tatua.



Success depended on an open, collaborative approach. Intralox, RML and Tatua shared information and decisions throughout design, prototyping and commissioning. Intralox focused on conveying details and belting expertise, allowing RML to concentrate on machine manufacture, controls and integration. That collaborative model produced an elegant, cost-efficient conveying solution that met Tatua's performance and long-term operational needs.

We will continue to partner with Intralox to apply the same standardisation and collaborative design principles to future projects, delivering reliable, scalable conveying solutions that make installations easier to build, maintain and operate.

To the right: *Render of the Bag Loading System developed for the customer.*





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We love solving challenges that free our customers and maximise human potential.

