

IMPROVING THROUGHPUT OF PACKAGING HANDLING MACHINERY

CHALLENGE

To increase the production rate of case packing machinery from 30 cases per minute (cpm) to 40 cpm or above through design or process changes.

PARTNER

**EDSON
PACKAGING**



Edson is an end-of-line division of Pro Mach, focusing in manufacturing of case and tray packing solutions specifically designed for the converted paper and personal care product markets.

TEAM

- Susan Marshall, Director of Engineering, Edson Packaging.
- Dr. Andy Simoneau, Assistant Professor, McMaster University.
- Lokesh Mohanasundaram, M. Eng., Manufacturing, Livanshu Kashyap, M. Eng., Manufacturing, Fernando Garcia, M. Eng., Manufacturing.

MILESTONES & OUTCOME

- Proposed a new design that eliminates the current process delays.
- Innovated a new case opening technique, reducing time lag by 37%.
- Achieved above the specified scope by attaining a rate of 44 cpm.

VALUE

Boosting the production rate will increase the partner's ability to produce in surplus to the stated demand, enabling them to attract new customers and expand their market base.

NEXT STEPS

- Build prototype of the proposed design.
- Back test the new strategy to identify constraints.
- Focus on improving the overall process.

STUDENT REFLECTION

- Great teamwork and communication experience.
- Developed new technical and personal skills.
- Incorporated professional etiquettes by coordinating with community members.

