



MACHINERY AUTOMATION & ROBOTICS

# Robotic Beef Splitter

## *New MAR Technology Development for Beef processing*

### Features & Benefits

- **Labour** – 1 to 2 operators per working shift
- **Species** – Beef
- **OH&S** – reduced injuries and accidents
- **Increased Yield** – accurate cuts reducing incident of soft siding
- **Productivity** – consistent, repeatable operations with reduced rework
- **Efficiencies** – minimise waste, flexibility to change cut specifications
- **Hygiene** – reduced contamination compared to manual operations

### Background

Similar robotic cutting technologies have been installed by MAR in the red meat industry to replace manual operations. This technology includes a robot, integrated sensing and cutting tools developed to perform a dedicated processing task.

Currently the beef splitting operation is performed manually by operators, using industrial bandsaws which are dangerous tools offering significant OH&S risks. The task is arduous to all operators and due to the requirement of accuracy to maximise yield cannot be performed by unskilled operators

### System Overview

The Robotic Beef Splitter will replace the actions of current manual beef splitting operations typically performed by 1 or 2 operators per working shift.

The system will utilise a specially designed cutting tool integrated to a robot system.

### Current Development

Currently MAR is completing trials to test and prove a new robotic beef splitting concept that includes a specially designed saw with integrated guidance and sensing.

The primary focus being accuracy, minimising cost and complexity of a commercial system upon development completion.

### Where To Next?

With the completion of the Robotic Beef Splitting trials in sight, MAR is currently seeking interest from processors to participate in the project by being a technology adoption site for the 1<sup>st</sup> full system installation of this MLA/AMPC funded development project.



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### VISIT

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