



MACHINERY AUTOMATION & ROBOTICS

Robotic Beef Scribing

New MAR Technology Development for Beef processing

Features & Benefits

- **Labour** – 2 to 3 operators per shift
- **Rates** – 240 head/hour “continuous “
- **Species** – Beef
- **OH&S** – reduced injuries and accidents
- **Increased Yield** – consistent, accurate cuts provide significant yield gains
- **Productivity** – repeatable operations ensure improved cut surface finish compared to manual operations
- **Efficiencies** – accuracy of cuts reduce need for rework
- **Hygiene** – reduced contamination compared to manual operations

Background

The success of MAR developed technology solutions for the red meat industry in recent years illustrates how current technology can deliver clever solutions to automate manual tasks.

Beef Scribing or Rib Cutting is a typical case where this can be achieved to provide major benefits including increased yield and a positive impact on critical OH&S issues.

The 1st Robotic Beef Scribing system has been developed and in production since 2009.

System Overview

The Robotic Beef Scribing system replaces the actions of the manual scribes or rib cutter operations. Scribing is the first point at which yield can be lost during the boning process and hence this task cannot be performed by unskilled operators due to the accuracy required to maximise yield.

Robotic Beef Scribing, scribes beef sides prior to boning using a robot integrated with a scribing saw and sensing technologies to accurately establish positions and profiles prior to cutting.

Where To Next?

With the 1st Robotic Beef Scriber System now in production, MAR is currently seeking interest from beef processors to participate in the project by being a technology adoption site for the next system installation of this MLA/AMPC funded development project.



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