

Hermary's Help in Creating a Safer, More Productive Meat Processing Plant

Smart Rib Saw Solving Problems

CHALLENGE

Several national meat plants have been striving to improve workplace safety while simultaneously bettering productivity for many years. Inconsistencies at critical steps have prompted manufacturers to look for a repeatable process that delivers dependable results.

APPROACH

Previously, there was no vision solution that could capture a saw operator's knowledge. By utilizing Hermary's machine vision, a new solution between Hermary, Rockwell Automation, and OEM Midwest Machine was developed to deterministically identify parts needing to be trimmed as well as a cutting path for the automated Smart Rib Saw during the butchering process.

SOLUTION

- EtherNet/IP – Simplifies the system design and allows for the scanned data to be processed and fed directly to PLCs
- Hermary's SL-1880E – Captures 3D data that allows downstream algorithms to calculate the optimal cutting path
- Midwest Machine's OEM machines using Rockwell PLCs to receive scanned data, track value, conveyor motion via EtherNet/IP to execute precision cuts

RESULTS

Improved workplace safety by implement the new automated process



Increased consistency and precision of cutting reduced meat wastage by 5%



Quick deployment at multiple facilities after initial success



ABOUT HERMARY

- Trusted by automation companies for 30+ years, Hermary provides 3D machine vision for system integrators and machine builders who create automation solutions for end-users
- Enabling integration companies to create solutions for 3D inspection, feature identification, object detection and process optimization
- Over 20,000 product installations worldwide