

# Meat Profiling

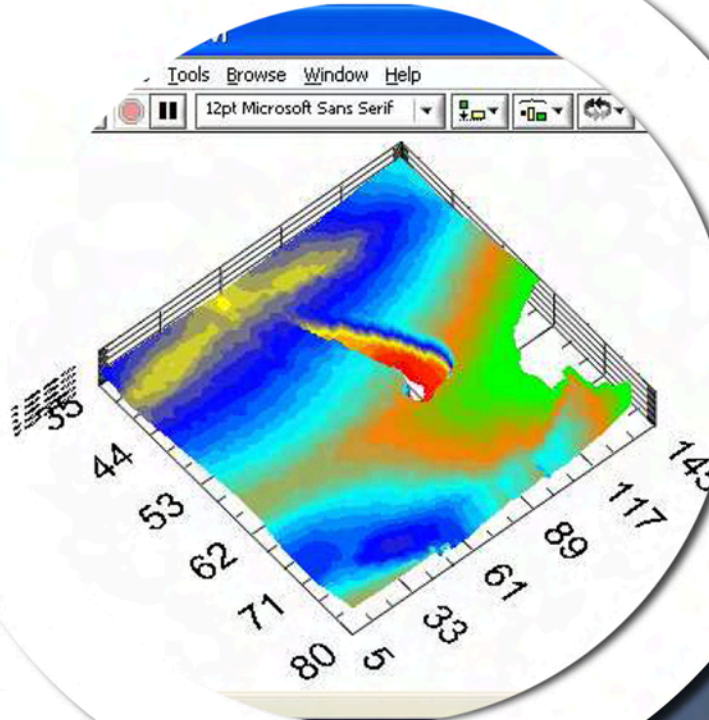
## 3D laser scanner application

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## Challenge

CPE were commissioned to develop a 3D scanner for profiling carcasses in meat processing plants that would produce a full view of any one side of a complete animal carcass, be accurate to better than  $\pm 10\text{mm}$  and still be cost effective.



## Solution

CPE Systems provided a solution utilising:

- A SICK LMS400 laser scanner to determine the cross-section profile of the target carcass at few millimetres intervals.
- The scanner's longitudinal movement along a track was driven by a servo motor controlled by a Trio Motion Coordinator MC206.
- A LabVIEW application was developed to coordinate the scan data acquisition with the scanner movement and generate a 3D point cloud.

## Benefits

- Enable the automation of accident prone, labour intensive cutting tasks
- Enhance the quality of the meat cuts and improve the efficiency of the process by providing accurate information about the optimal location of the cut.

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