



P&P Optica

Poultry Processor Reduced Foreign Material Complaints by 90% with PPO's Z-Configuration System

When supplying food service and other secondary processing customers, it is imperative to provide safe, high-quality products to protect the brand reputations of both the supplier and the secondary processor. A top 10 poultry processor sought a reliable solution to detect plastic and other low-density contaminants in their whole muscle products. This case study examines the successful implementation of a PPO Z-Configuration system and its impact on reducing foreign material incidents for this processor.

Background

The company faced ongoing challenges with detecting plastic and other contaminants within their production process. With multiple plants producing the same whole muscle product for a major downstream customer, ensuring product integrity and minimizing foreign material incidents was paramount. The company sought a solution that could be integrated into their existing production lines and deliver accurate, reliable detection results across a range of contaminants.

The Solution: PPO Smart Imaging

To address their challenges, the processor selected PPO's Z-Configuration system for installation at one of its plants. This particular plant supplied a larger volume of product to their downstream customer than any other facility, making it an ideal location to pilot the new technology. PPO's Smart Imaging System uses a combination of hyperspectral imaging, visual inspection and artificial intelligence (AI) to detect a wide variety of foreign materials in line. Its unique design and plant-ready features made it easy to integrate into the plant's existing production line, immediately after their existing metal detection equipment.

The Results: 90% Less Foreign Materials!

The downstream customer inspects all incoming raw materials for foreign materials and reports those findings back to the company. Over 12 months, the downstream customer's tracking data revealed a striking difference in performance between the line equipped with PPO's Z-Configuration system and all the other lines operated by the company.

The production lines without a PPO system averaged one foreign material incident report for every 500,000 pounds of product.

In stark contrast, the line equipped with PPO's system demonstrated a significantly improved performance, averaging only one incident reported per 5,000,000 pounds of product.

This represents a remarkable 10-fold reduction in foreign material incidents thanks to the PPO Smart Imaging System.

The implementation of PPO's Z-Configuration system has been a resounding success for this processor. By significantly reducing foreign material contamination, the company enhanced its product quality, strengthened its relationship with its key customers, and protected its brand reputation. The impressive results achieved at the pilot plant led the processor to implement additional PPO Smart Imaging Systems in other parts of their operation.

