P&P Optica

Calculating the ROI of Foreign Material Detection

Implementing an automated foreign material detection solution can offer major bottom-line benefits.

Hyperspectral imaging is a highly effective detection approach if low-density foreign materials, like plastic, wood and cardboard, are causing problems in your plant. Many meat processing plants relying on PPO's Smart Imaging System have paid for their system within the first year of operation – or less.

4 measurable impacts of PPO's Smart Imaging System

1 Make Better Use of Human Resources

PPO's system is always on and will find even hard-to-spot foreign materials that many human inspectors struggle to catch.

PPO's Smart Imaging System frees your inspectors to perform higher-value work elsewhere. Cross-skill your staff to perform multiple functions so you can deploy talent in real-time to meet the changing demands of your operation.

2 Reduce Condemned Product

PPO's system inspects every piece of product on the belt. When it finds a contaminant or unknown object, it rejects a very small amount of product off the line for further inspection.

Catching foreign materials early means huge savings in further processing. Customers who have implemented the Smart Imaging System reduced condemned product by up to 80%, with **typical savings of between $500K and $1M per year.**

3 Prevent Chargebacks

PPO customers have substantially reduced client chargebacks by improving product quality and reducing foreign materials findings.

One of PPO's clients **reduced their chargebacks by ⅔** simply by eliminating an upstream maintenance issue identified through PPO Insights.

4 Retain Customers and Avoid Costly Recalls

The average impact of a recall for food companies is estimated to be $10 million in direct costs.

Even one recall is enough to impact your brand, harm customer relationships and erode consumer trust. PPO's customers have avoided multiple costly recalls since installing our Smart Imaging System.

Learn how PPO can quickly maximize your return on investment.
sales@ppo.ca | 1-800-706-3811

Real ROI wins from the front lines of food processing

A SECONDARY PORK PROCESSOR HAS IMPRESSIVE FOREIGN MATERIAL FINDINGS FROM DAY 1

OVERVIEW — During the first 3 weeks of operation this processor scanned **3.7 M pounds** of product using PPO's Smart Imaging System.

RESULTS
- 48 foreign materials removed
- 98.38% up time
- 0.39% false rejection
- Average foreign material detection performance OVER 95% @ 3.5mm (~⅛")

"YOU CAN'T ARGUE WITH THESE RESULTS, THIS IS VERY IMPRESSIVE... I'M A PPO BELIEVER!"

$8M POULTRY PROCESSOR PREVENTS MASSIVE RECALL WITH PPO

$550K PROCESSOR SAVES $550K IN 12 MONTHS WITH PPO

6 MONTHS POULTRY PROCESSOR ENJOYS FAST PAYBACK DUE TO REDUCED CONDEMNS

10:1 PLANT WITH PPO LINE OUTPERFORMS ALL ITS PEERS IN AVERAGE INCIDENTS

PREVENTED: 40,000 LBS OF CONDEMNED PRODUCT

OVERVIEW — A top-10 meat processor implemented PPO's Smart Imaging System on a pork line. When PPO rejected zip-ties, the operations tagged combos and ran them back through the system at end of shift. **Two more instances were found.**

RESULTS
- ~40,000 lbs of product saved from waste
- Preserved efficiency on the production lines
- Since installation, **0 downstream foreign material findings** in product scanned by the Smart Imaging System

"THE FM'S BEING FOUND TODAY HAVE PROBABLY ALWAYS BEEN IN THIS PRODUCT, BUT WE DIDN'T HAVE ANY WAY OF FINDING THEM BEFORE THE PPO."

Calculate basic ROI by examining the past
- How many foreign material incidents have we had?
- How much has a previous recall cost us?
- How much product is lost/condemned due to foreign materials?
- How much do foreign materials cost us in downtime?
- How many credits have been issued due to foreign materials?
- How much labour do we use for inspection?

Explore how PPO can help find more low-density foreign materials in your operations.
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