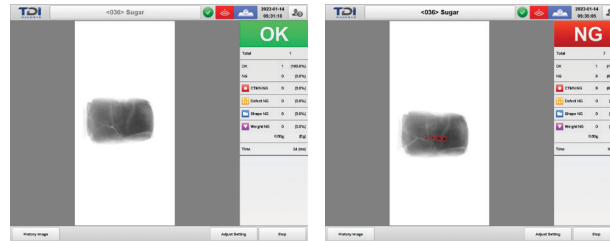


XR-PDE CHICKEN BONE INTEGRATED X-RAY INSPECTION SYSTEMS



XR-PDE Chicken Bone Integrated X-Ray Inspection Systems are specifically engineered for American chicken processing plants to deliver superior bone and foreign material detection. Using a combination of photon dual energy and AI inspection technologies, they detect hard-to-find contaminants including fan bones, cartilage, and plastic – built to handle your most challenging poultry applications.

All systems feature TDI Packsys's customizable AI inspection suite, and 100% American engineering and support. Integration with customizable infeed, reject, and rework conveyors allows you to achieve high sensitivity without sacrificing efficiency or throughput.



View real-time images of current products for quick location and identification of contaminants.

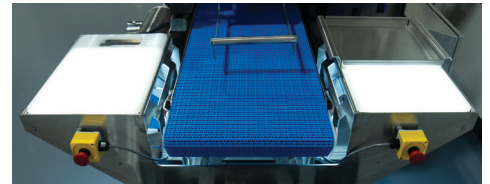
Applications

- For inspection and trimming/rework of raw unpackaged cuts
- Use to detect bone, cartilage, metal, plastic, glass, and other foreign material

System Highlights

1. Fully Integrated Infeed + Rework Conveyors

- Developed with American chicken producers to include integrated infeed, reject, and product return conveyors, plus backlit trimming stations for reworking rejected cuts.
- IP69K construction and full customization – easily integrates into the most demanding production lines.

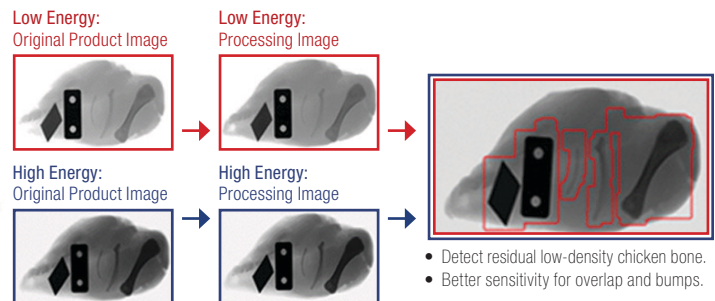


2. Direct-Conversion (Photon-Counting) Dual Energy Technology

- **Direct Conversion** maximizes clarity and sensitivity
- **Dual-Energy Technology** relies on molecular composition for increased detection of bones, cartilage, plastic, and other low-density materials



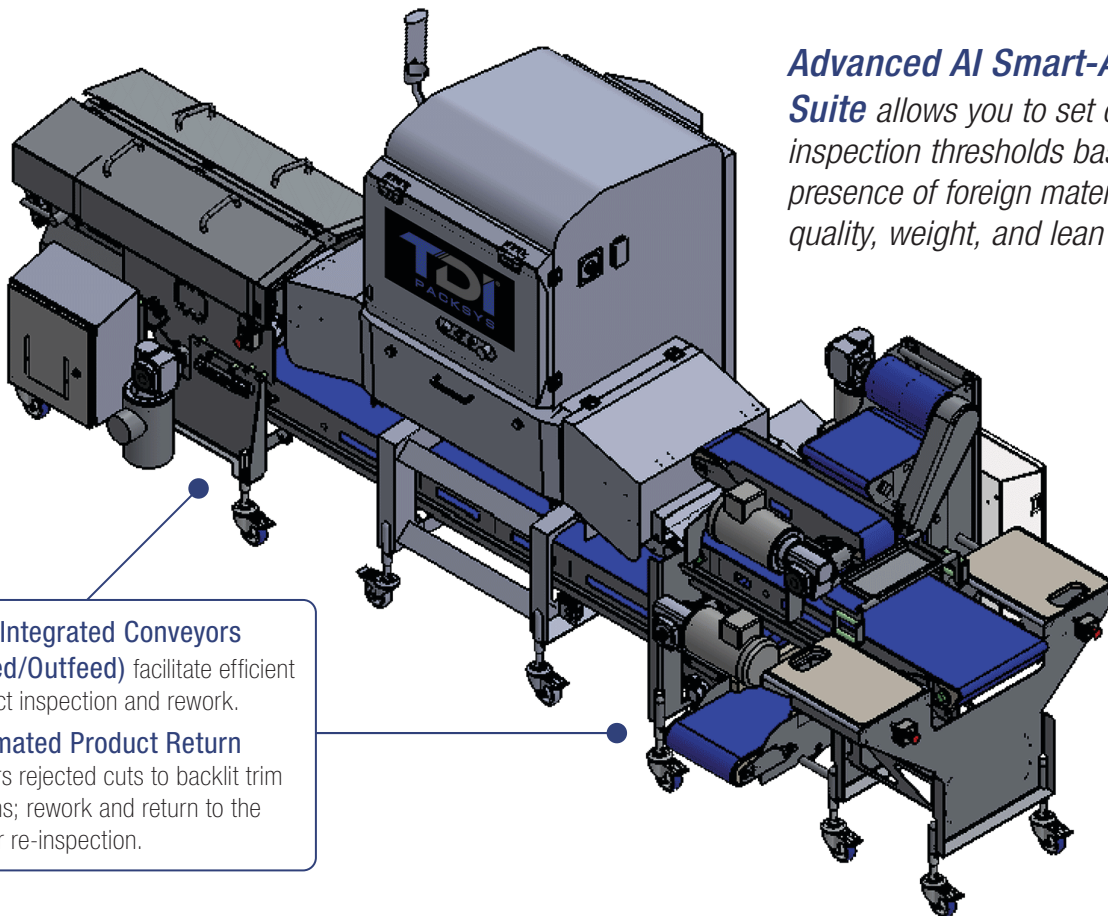
Achieve exceptional levels of bone and foreign material detection!



Smart Algorithms (AI)

Smart Algorithms (also referred to as AI) add an additional level of inspection to our x-ray systems by enabling them to simulate Computer Vision, and optically inspect the x-ray image for contaminants. If the contaminant can be seen, it can be detected, even if the density is too low to be caught by traditional x-ray algorithms. Smart Algorithms are developed on a per product and per application basis. The system learns the normal product state, and can then identify any visible contaminants, regardless of density. We also employ this technology to find oil in seals, which has a density less than water.

Key Features & Functionality



Advanced AI Smart-Algorithm Suite allows you to set custom inspection thresholds based on presence of foreign material, product quality, weight, and lean ratio.

Fully Integrated Conveyors (Infeed/Outfeed) facilitate efficient product inspection and rework.

Automated Product Return delivers rejected cuts to backlit trim stations; rework and return to the line for re-inspection.

- **Windows-based software** – easy viewing/export of photos and data logs, controlled user access, and detailed batch analysis
- **World-leading componentry** – VJT, Siemens, and Schneider
- **Heavy-duty construction** – IP69K; 304 bead-blasted stainless steel
- **24/7 American-based service** – remote support available during every shift, and an unmatched 24-hour on-site technician guarantee; TDI Packsys is dedicated to keeping your line running and delivering top-tier inspection partnership

TDI Packsys

TDI Packsys is a premier provider of inspection solutions and packaging automation systems. Our expert team is dedicated to delivering state-of-the-art solutions that meet your budget. Contact us to see how we can help optimize your operation.



SCAN ME

There's More

Inspection Systems

- Metal Detectors
- Checkweighers
- Combo Systems
- X-Rays
- Color Sorters
- Vision Systems

Packaging Automation

- Palletizers
- Form, Fill & Seal
- Scaling & Dosing
- Flow Wrappers
- Robotic Packing