

WE catch THEM ALL

NEW

**HIGH-PRECISION SORTING FOR VEGETABLES, FRUITS,
SNACKS AND OTHER SMALL PRODUCTS.**

Background-free in-flight inspection for higher removal efficiency, reduced yield loss
and maximum uptime.





INSPECTION WITHOUT COMPROMISE.

REAL-TIME INSPECTION IN FLIGHT.

Conventional belt sorters inspect products directly on the belt, where shadows, reflections and contamination can influence image quality and sorting consistency. These limitations reduce inspection stability and make precise reject decisions more challenging.

SHERLOCK BELT COMPACT changes the point of inspection.

Instead of analyzing products on the belt, every product is inspected in free flight, completely separated from any physical background. This unique in-flight inspection architecture creates cleaner image acquisition, more stable product segmentation and a significantly shorter distance between inspection and ejection.

The result is faster, more precise sorting decisions with higher removal efficiency, lower yield loss and consistent performance under real production conditions.

ENGINEERED FOR PERFORMANCE. BUILT FOR PRODUCTION.



[Learn more](#)



WE catch THEM ALL

DEFECTS. DISCOLORATIONS. FOREIGN MATERIAL.

Powered by high-resolution 4K RGB imaging, AI-supported deep learning and a unique background-free in-flight inspection architecture, SHERLOCK BELT COMPACT delivers highly stable defect detection and precise sorting decisions for vegetables, fruits, snacks and other small products.

By inspecting every product individually in free flight, the system minimizes false rejects, improves removal efficiency and maximizes the retention of good product, even at industrial throughput.



Vegetables



Potato Products



Chips & Snacks



Fruits



Gummies



Your Application

SYSTEM-BENEFITS

- Background-Free In-Flight Inspection
- High-Resolution 4K RGB Imaging
- AI-Supported Deep Learning
- High-Speed Air Ejection
- Higher Removal Efficiency
- Reduced Yield Loss
- Compact, Retrofit-Friendly Design
- Data Extraction & Process Analysis
- Remote Access



BACKGROUND-FREE IN-FLIGHT INSPECTION

COMPLETE VISIBILITY. CONSISTENT RESULTS.

UNLIKE CONVENTIONAL BELT SORTERS, SHERLOCK BELT COMPACT INSPECTS PRODUCTS AFTER THEY LEAVE THE BELT, COMPLETELY SEPARATED FROM ANY PHYSICAL BACKGROUND.

This unique in-flight inspection architecture eliminates optical interference caused by belts, shadows and contamination while significantly reducing the distance between inspection and ejection. The result is cleaner image acquisition, more stable product segmentation and highly precise reject decisions with minimal loss of good product.

KEY ADVANTAGES

- Background-free inspection
- Stable image quality
- Reduced false positives
- Higher removal efficiency
- Lower yield loss
- Reduced maintenance requirements



4K RGB VISION

HIGH-RESOLUTION IMAGING FOR PRECISE SORTING

SHERLOCK BELT COMPACT COMBINES NEXT-GENERATION 4K RGB IMAGING WITH ADVANCED IMAGE PROCESSING TO DELIVER HIGHLY DETAILED VISUAL INSPECTION OF EVERY PRODUCT.

The increased image resolution provides significantly more product information, enabling reliable detection of subtle visual defects while maintaining stable inspection performance under continuously changing production conditions. With its advanced 4K vision platform, SHERLOCK BELT COMPACT delivers highly reliable sorting decisions for vegetables, fruits, snacks and other small products where precision directly influences product quality, yield and operational efficiency.

TYPICAL DETECTION CAPABILITIES INCLUDE

- Dark or burnt product
- Discolorations
- Color defects
- Size and shape analysis
- Foreign material
- Product classification



AI-SUPPORTED DEEP LEARNING

INTELLIGENT IMAGE ANALYSIS FOR CONSISTENT SORTING PERFORMANCE.

SHERLOCK BELT COMPACT COMBINES HIGH-RESOLUTION 4K RGB IMAGING WITH AI-SUPPORTED DEEP LEARNING TO DELIVER RELIABLE DEFECT DETECTION ACROSS CHANGING PRODUCTS AND PRODUCTION CONDITIONS.

Instead of relying solely on predefined rules, intelligent image models continuously evaluate visual product characteristics, enabling stable product segmentation and highly accurate sorting. Once configured, the system delivers consistent inspection performance with minimal operator intervention, helping processors maintain stable quality throughout every production shift.

KEY ADVANTAGES

- Reliable defect detection
- Stable sorting performance
- Precise product segmentation
- Reduced operator dependency
- Improved adaptability to product variations



ENGINEERED FOR MAXIMUM UPTIME

LOWER MAINTENANCE. HIGHER OPERATIONAL STABILITY.

BY MOVING INSPECTION INTO FREE FLIGHT, SHERLOCK BELT COMPACT ELIMINATES MANY OF THE MAINTENANCE CHALLENGES ASSOCIATED WITH CONVENTIONAL BELT INSPECTION SYSTEMS.

Without physical camera backgrounds and without inspection directly on the belt surface, the system maintains consistently stable inspection performance while reducing cleaning effort and maintenance intervention.

THIS CONTRIBUTES TO

- Higher operational uptime
- Longer cleaning intervals
- Reduced maintenance effort
- Stable long-term performance

PRECISE REMOVAL. OPTIMIZED YIELD.

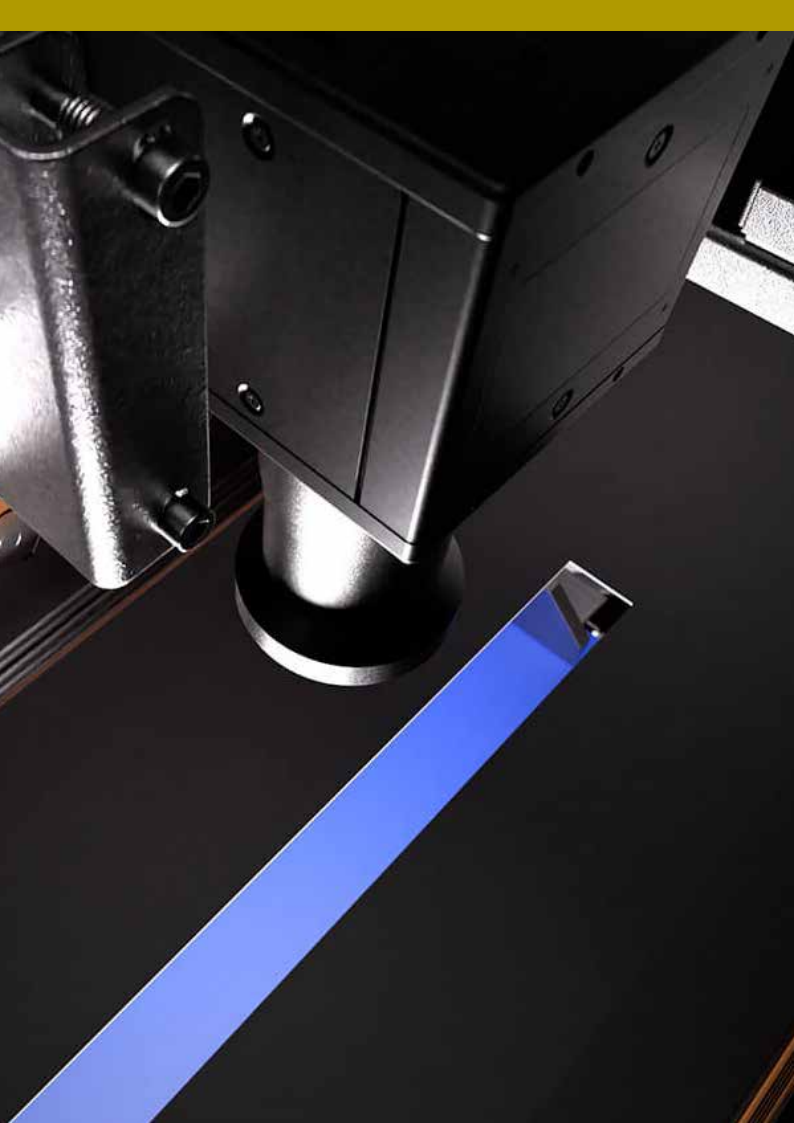
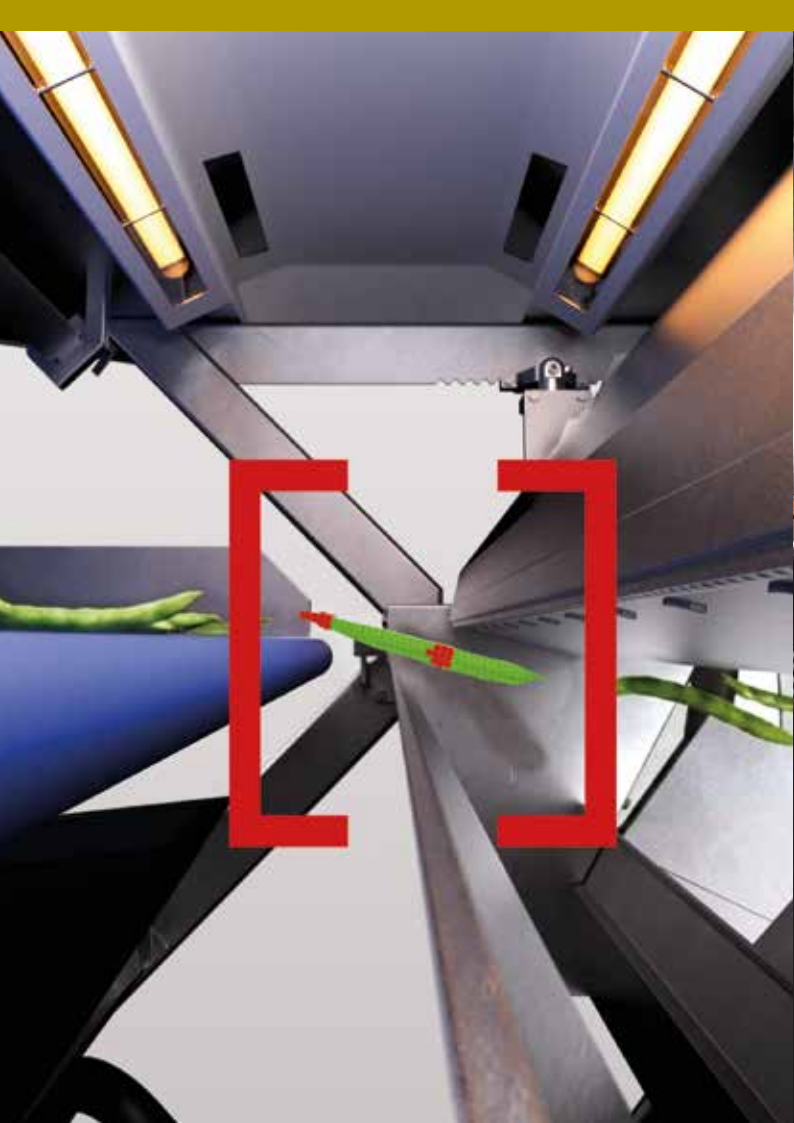
HIGHER REMOVAL EFFICIENCY. LOWER PRODUCT LOSS.

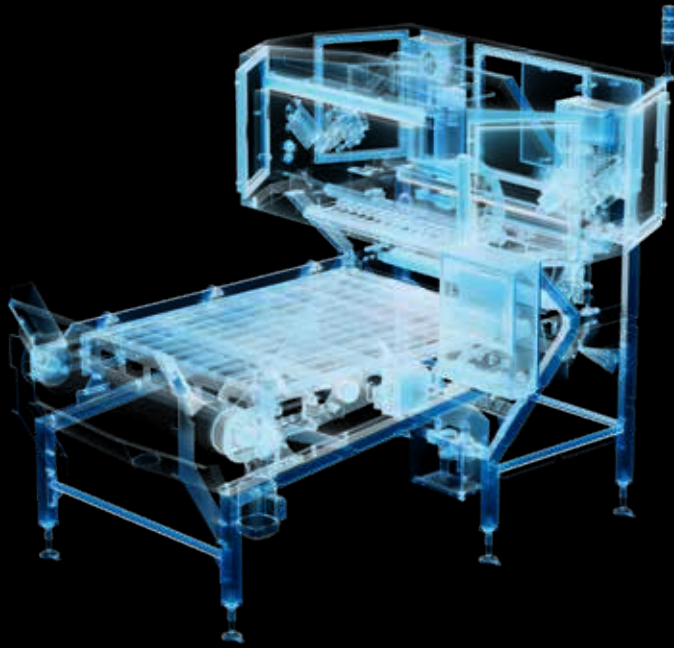
SHERLOCK BELT COMPACT WAS ENGINEERED TO MINIMIZE THE DISTANCE BETWEEN INSPECTION AND EJECTION, ENABLING HIGHLY PRECISE REJECT DECISIONS EXACTLY WHERE THEY MATTER MOST.

Combined with high-speed air ejection and stable product tracking, the system removes defects with exceptional accuracy while maximizing the retention of good product.

Only the product that must be removed is removed. This supports higher yield, stable production efficiency, reliable product quality and reduced food waste.







**ENGINEERED FOR PERFORMANCE.
BUILT FOR EASY INTEGRATION.**

SHERLOCK BELT COMPACT was developed for processors seeking advanced sorting performance without extensive modifications to existing production lines.

Its compact footprint and modular design enable straightforward integration into both new and existing processing environments, making it an ideal replacement for older-generation belt sorters.



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