

WE catch THEM ALL

360°

NEW

360° INSPECTION. BUILT FOR INDUSTRIAL THROUGHPUT.

High-performance belt sorting for potato products, fresh vegetables and other processed food applications. Patented technology for stable inspection, precise sorting and maximum uptime.





SEE MORE. DETECT MORE.

BUILT FOR INDUSTRIAL REALITY.

Conventional belt sorters often struggle with unstable product presentation, inconsistent separation and limited product visibility at high throughput. These challenges can directly affect inspection quality, defect detection and overall sorting precision.

SHERLOCK BELT was engineered differently.

Its patented curved belt geometry stabilizes product flow before inspection, while the patented tilted lens architecture delivers reliable 360° visibility throughout the inspection process. The result is highly consistent image acquisition, stable inspection performance and precise sorting decisions under continuous industrial operating conditions.

ENGINEERED FOR HIGHEST PERFORMANCE. BUILT FOR CONTINUOUS PRODUCTION.



[Learn more](#)

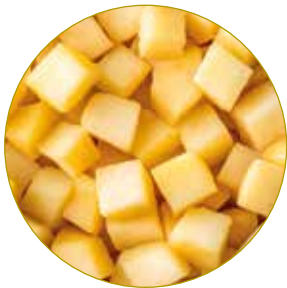


WE catch THEM ALL

DEFECTS. LENGTH. FOREIGN MATERIAL.

SHERLOCK BELT combines patented mechanical design, advanced optical inspection and AI-supported image analysis to deliver highly stable sorting performance for potato products, fresh cut vegetables and fruits and other small food products.

Designed for industrial throughput in excess of 25 t/h, the system reliably detects defects larger than 3 mm while maintaining controlled product handling and maximum good-product retention.



**Fresh and Blanched
Potato Products**



Wet Potato Strips



Wedges



Fresh Cut Vegetables



Fresh Vegetables



Blanched Vegetables



Fresh Cut Fruit



Fresh Fruit



Your Product

SYSTEM-BENEFITS

- Patented Curved Belt Technology
- Patented Tilted Lens Architecture
- Reliable 360° Product Inspection
- AI-Supported Image Processing
- Background-Insensitive Inspection
- Stable Product Presentation
- Reduced Cleaning Requirements
- In excess of 25 t/h Throughput



PATENTED CURVED BELT TECHNOLOGY

STABLE PRODUCT FLOW. PRECISE INSPECTION.

THE PATENTED CURVED BELT GEOMETRY PROVIDES CONTROLLED PRODUCT PRESENTATION AND CONSISTENT ORIENTATION, CREATING THE FOUNDATION FOR RELIABLE INSPECTION, PRECISE SORTING DECISIONS AND MAXIMUM PRODUCT STABILITY.

Products enter the system horizontally before being guided along the curved conveyor profile, creating controlled orientation and consistent spacing. This improves singulation, minimizes unwanted movement and ensures stable product presentation, even at industrial throughput. The controlled product release also supports accurate product tracking and precise reject timing for reliable sorting performance and maximum good-product retention.

THE CURVED BELT CREATES

- Horizontal product intake
- Controlled product stabilization
- Optimized product orientation
- Clean product release
- Improved singulation
- Precise separation



360° PRODUCT INSPECTION

COMPLETE PRODUCT VISIBILITY.

SHERLOCK BELT COMBINES ITS PATENTED CURVED BELT GEOMETRY WITH ADVANCED CAMERA POSITIONING TO DELIVER RELIABLE 360° PRODUCT INSPECTION.

The optical architecture captures the complete product surface while maintaining stable image acquisition at high belt speeds. This enables reliable detection of visual defects, shape deviations, length variations and foreign material across the entire product stream.

The lower inspection module is positioned outside the main product flow, reducing contamination, extending cleaning intervals and supporting consistent inspection performance during continuous industrial production.

TYPICAL DETECTION CAPABILITIES INCLUDE

- Surface defects
- Shape deviations
- Length sorting
- Product classification
- Small defects (>3 mm)
- Foreign material



TILTED LENS ARCHITECTURE

OPTICAL PRECISION. ENGINEERED FOR CONSISTENT IMAGING.

SHERLOCK BELT UTILIZES PATENTED TILTED LENS ARCHITECTURE TO DELIVER SHARP, CONSISTENT IMAGING ACROSS THE ENTIRE INSPECTION FIELD.

The optimized optical design maintains stable focus and reliable edge visibility, ensuring accurate image acquisition even at high processing speeds.

Combined with the curved belt geometry, the system provides consistent inspection quality across varying product sizes, shapes and flow conditions, supporting reliable defect detection throughout continuous industrial production.

KEY ADVANTAGES

- Stable focus
- Reliable edge visibility
- Precise image acquisition
- Consistent inspection quality
- Reliable inspection at high belt speeds



BACKGROUND-INSENSITIVE INSPECTION

DESIGNED FOR LONG-TERM STABILITY.

UNLIKE CONVENTIONAL SYSTEMS THAT RELY ON PHYSICAL BACKGROUNDS, SHERLOCK BELT WAS DEVELOPED AS A BACKGROUND-INSENSITIVE INSPECTION PLATFORM.

By minimizing the influence of contamination and background variations, the system maintains stable image quality over extended production periods. The strategically positioned lower inspection module further reduces contamination of cameras and illumination, extending cleaning intervals and lowering maintenance requirements while supporting consistent sorting performance.

BENEFITS

- Stable image quality
- Reduced false positives
- Extended cleaning intervals
- Lower maintenance effort
- Reliable long-term performance



AI-SUPPORTED IMAGE ANALYSIS

INTELLIGENT SORTING. BUILT FOR CONSISTENT PERFORMANCE.

SHERLOCK BELT COMBINES ADVANCED IMAGE PROCESSING WITH AI-SUPPORTED CLASSIFICATION TO DELIVER STABLE, REPEATABLE SORTING PERFORMANCE UNDER CONTINUOUSLY CHANGING PRODUCTION CONDITIONS.

Instead of relying solely on predefined rules, intelligent image models evaluate complex product characteristics, enabling reliable defect detection, precise product classification and accurate sorting decisions across varying product types.

Stable product tracking and controlled ejection enable Sherlock Belt to remove only defective product while maximizing the retention of good product. Precise reject timing contributes to consistent downstream quality, improved production efficiency and reduced food waste throughout continuous industrial operation.



BUILT FOR HIGH-CAPACITY

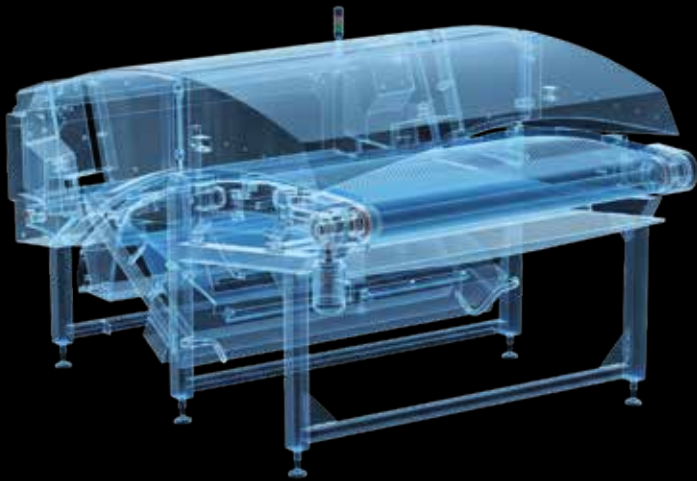
DESIGNED FOR CONTINUOUS OPERATION.

SHERLOCK BELT WAS ENGINEERED FOR DEMANDING PRODUCTION ENVIRONMENTS WHERE THROUGHPUT, UPTIME AND INSPECTION STABILITY DIRECTLY INFLUENCE OPERATIONAL EFFICIENCY.

DESIGNED TO SUPPORT

- Stable throughput in excess of 25 t/h*
- Reliable inspection quality
- Controlled product handling
- Reduced cleaning requirements
- Extended maintenance intervals
- Maximum operational uptime

*Depending on product and configuration.



ENGINEERED FOR INDUSTRIAL PRECISION.

Modern food processing requires more than accurate inspection. It demands stable performance, reliable throughput and consistent sorting quality under real production conditions.

SHERLOCK BELT combines patented mechanical engineering, advanced optical inspection and AI-supported image analysis to deliver dependable sorting performance where productivity and product quality matter most.

Whether processing fresh potato products, vegetables or other processed foods, SHERLOCK BELT helps processors maximize yield, reduce waste and maintain consistent product quality shift after shift.



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