

# WE catch THEM ALL

with **Sherlock**  
separator



*Specially developed for sorting whole potatoes, the Sherlock Separator sets new standards – and now also for fruit and vegetable processing.*

## SHERLOCK SEPARATOR

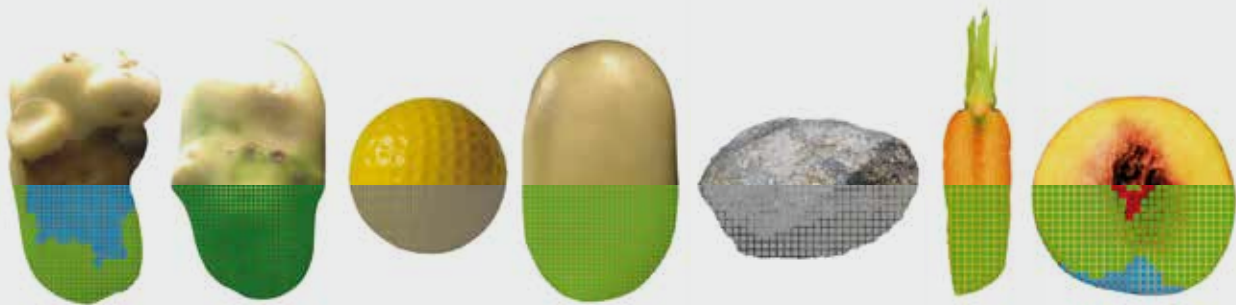
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Insort's Sherlock Separator provides the most reliable foreign body detection on the market today. This is accomplished by using the Safeguard Rejection System, perfected by Insort, combined with our **CIT**<sup>®</sup> camera and high-resolution RGB cameras fitted on both sides.

We provide the most complete 3-way sorting solution including detection of color, shape and chemical defects. The whole potato sorter is capable of detecting defects such as sugar ends, scab, rot, green and glassy potatoes. "Re-peel" and size sort functions are standard as well as comprehensive data provision in line with the latest Industry 4.0 requirements.

Integrated Peel Scan Function and automatic Peeler Control enable maximizing yield and reducing operating costs of your steam peeling process. The Sherlock Separator meets the highest standards of hygienic design for easy, trouble-free machine cleaning.

## APPLICATION EXAMPLES



- Detection of foreign bodies
- Detection of color defects
- Detection of shape defects
- Detection of chemical defects (e.g. sugar ends, glassiness) Patent granted

- Peel detection (repeel function)
- Sorting by size (length and width)
- Integrated peel scanner
- 3-way sorting
- Safeguard rejection system

- Size statistics
- Defect statistics
- Reject statistics
- Sensor object-fusion
- Remote access

## SAFEGUARD REJECTION SYSTEM

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Insort's Safeguard Rejection System activates stainless steel paddles to interrupt the acceptable product free fall stream. Other systems try to eliminate foreign materials by hitting them at the center of gravity. We activate the paddle from the beginning to the end of the foreign material. This enables removing a multitude of foreign materials, from large or heavy objects (e.g. wood, stone) to thin or light objects (e.g. vines), with the highest level of reliability and safety. Early deployment of interruption of the free fall stream means that all foreign materials are safely diverted to the reject chute and not just "kicked out". This prevents foreign materials (e.g. golf balls) from bouncing back into the good product stream or shattering (e.g. glass). For larger foreign materials multiple paddles will be activated automatically.

## AUTOMATIC PEELER CONTROL

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The Sherlock Food Analyzer's well-known Peel Scan Function and Automatic Peeler Control is fully integrated in the Sherlock Separator. **CIT**<sup>®</sup> enables any residual skin left on steam-peeled potatoes to be continually and precisely measured in-line. Steam times will be automatically adjusted by Insort's Peeler Control in order to optimize yield and reduce operation costs of your steam peeler. **CIT**<sup>®</sup> differentiates reliably between peelings, scab or other defects and is unaffected by type of potato, length of storage or thickness of skin. The Peel Scan Function/**CIT**<sup>®</sup> combination makes the need for continual adjustments to programs as the season progresses a thing of the past. Our customers experienced the enormous potential for savings delivered by this unique function alone.



**CHEMICAL  
IMAGING  
TECHNOLOGY**

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