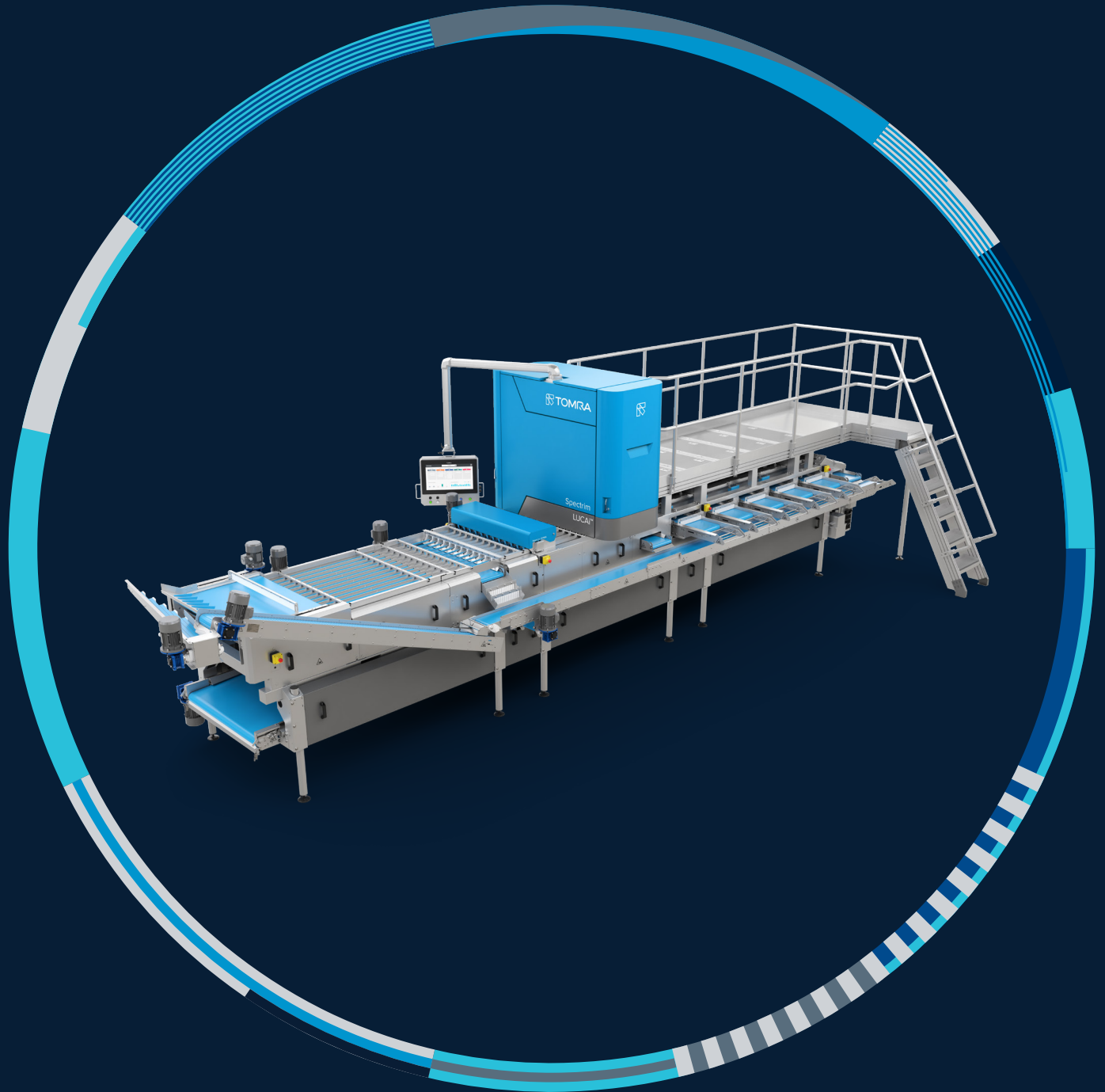




TOMRA



TOMRA 5S Blueberry
Spectrim with LUCAi™

TOMRA 5S Blueberry

Powered By Innovation, Enabled By Expertise

Blueberries are delicate, nutritious, and full of flavor. Preserving their quality requires more than just careful harvesting; it demands precision. This is where the 5S Blueberry delivers measurable value to any packhouse.

Our design focuses on what matters most: bloom retention, low impact transfer points, grading accuracy and optimized throughput.

Every mechanical interaction—from infeed to discharge—is designed to minimize abrasion, pressure loading, and drop heights, ensuring berries maintain their natural protective coating and visual quality.

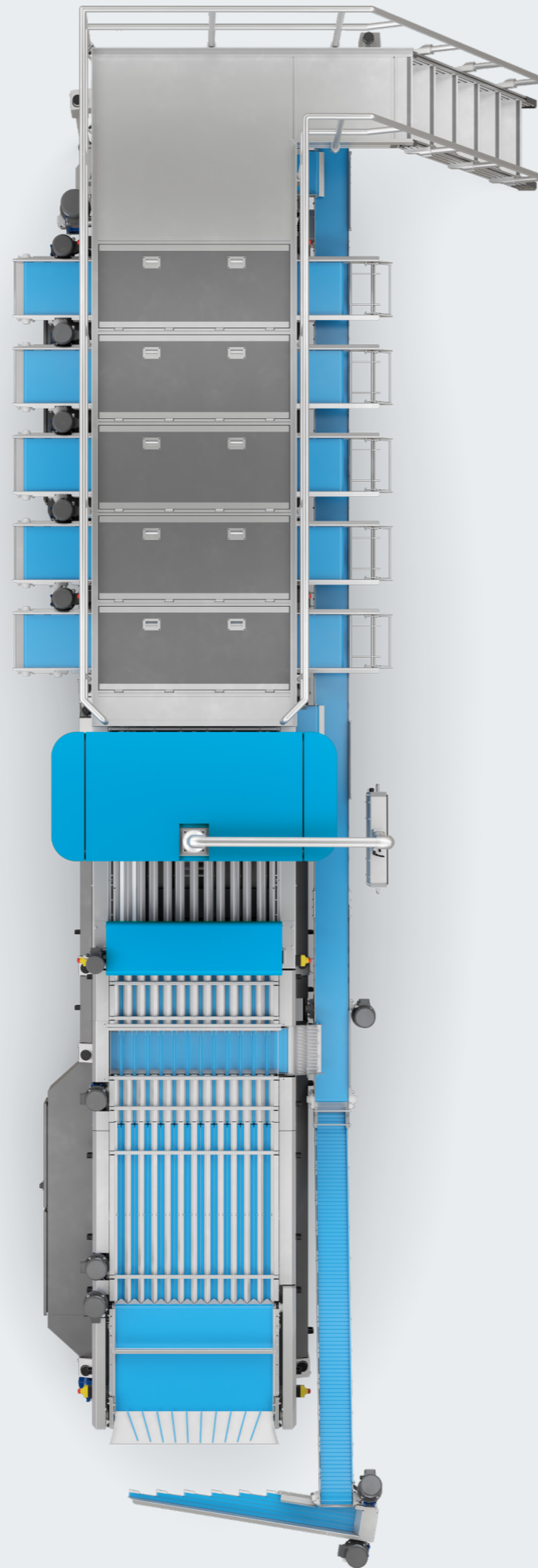
So, every blueberry leaves your facility in the best possible condition.

Powered by Spectrim with LUCAi™, you can clearly see the value markers that matter to make confident decisions about your fruit. We put the control in your hands. No magic box - just decades of understanding what creates blueberry value.

By pairing precise defect detection with advanced classification, the 5S Blueberry delivers consistent value selection on the first pass. It doesn't just process fruit — it helps you elevate the worth of every single berry, safeguarding quality while improving efficiency.

The 5S Blueberry is much more than a vision system. We examined the entire journey from receipt to final product and refined each step to improve handling, singulation, and selection.

Built for year-round use, it offers quick, simple cleaning, durable components, and a naturally intuitive interface that can adapt with the season.



Dehydration Detection

Experience the true power of Spectrim with LUCAi™, revealing every blueberry in extraordinary detail, including accurate dehydration detection.



Dynamic Feedback

Intuitive alerts, batch reporting connectivity and an enhanced interface will give operators total visibility across every batch.



Bloom Preservation and Gentle handling

Minimal transitions while maintaining high throughput. Engineered with ultra-gentle transport belts help to preserve blueberry bloom, allowing you to deliver top-quality blueberries to your customers.



Throughput

Beyond raw capacity lies balanced distribution and reduced recirculation. Consistent, first-pass delivery for every berry and a new infeed system engineered to eliminate unnecessary recirculation.



Proprietary Transfer Cushion

This unique design unlocks higher throughput while reducing recirculation all while gently handling every blueberry, with the added benefit of maintaining the smallest footprint for capacity in the market.



Reliability

Robust industrial design, combined with quick-change components means your line will be running all season. Tested to withstand the most challenging blueberry packhouse environments and conditions.



Built on Experience

With over 20 years of leadership in the blueberry industry and a decade of proven success delivering the world's leading optical sorters across global markets, TOMRA truly understands blueberries. Our experience shows in every detail of our design - efficient, and built to perform better, for longer.

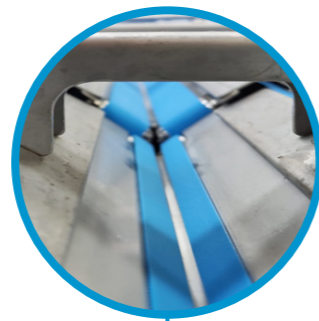
Powered by innovation, the Spectrim platform provides intelligent optical sorting and grading, trusted across multiple commodities worldwide. Combined with LUCAi™ deep learning technology, the 5S Blueberry sets a new benchmark in sorting accuracy and defect detection - specifically dehydration, damage, splits, and blemishes with unmatched precision.

The result: a solution that doesn't just sort blueberries—it protects their quality, maximizes value, and reinforces TOMRA's position as the trusted leader in blueberry classification.



Robust infeed design

Built for challenging packhouse conditions and engineered to perform year after year, season after season.



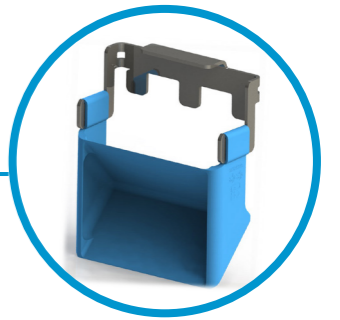
Lowest transitions

The 5S Blueberry has the industry's lowest transitions across the line. Sort with confidence knowing that your fruit is being gently handled throughout its journey.



Powered by Spectrim with LUCAi™

More cameras, higher resolution built into an industrial design.



Superior curtain design

Gentle on fruit with optimized geometry ensures every berry is delivered safely.



Advanced chain system

Guarded from debris, auto-lubricated, with rapid clean and dry modules, an inherently safe design built to operate at high speed season after season.



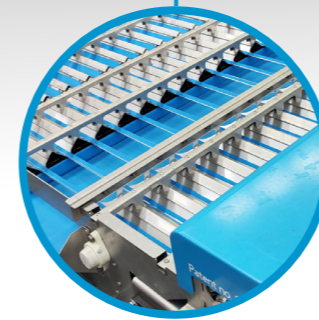
Gentle lane balancing return

Gentle drops deliver fruit to a six-stranded return that ensures optimal distribution for maximum cupfill.



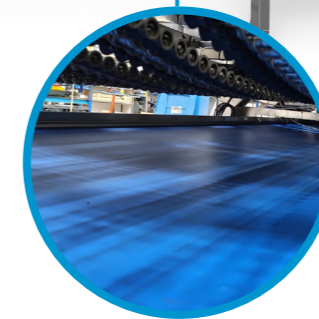
Cleaning system

Fast and easy to clean with built-in debris system and rapid clean and dry module.



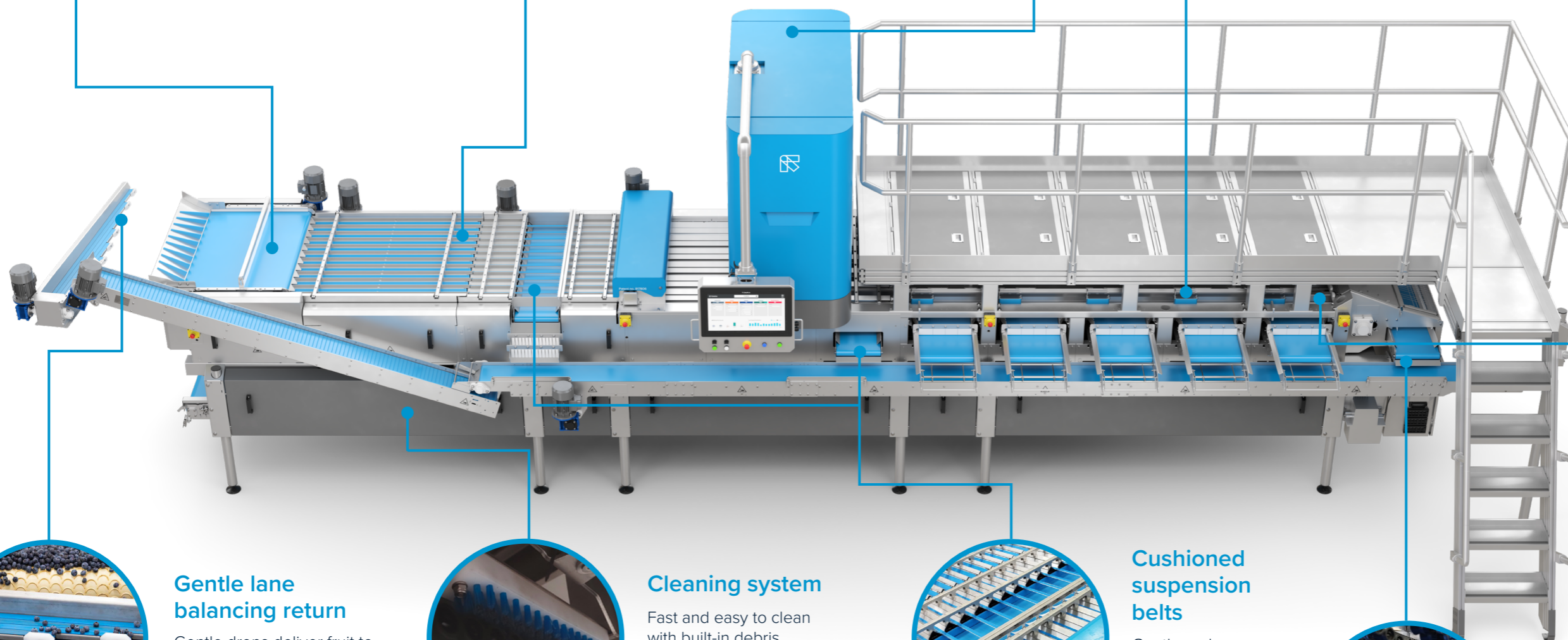
Cushioned suspension belts

Gentle and easy to maintain these reduce damage and preserve berry quality.



Full length debris conveyor

Keeps the operating area clean and free from catch pans and lugs.



What sets Spectrim apart?

→ User friendly interface

Your priority is growing and delivering high quality fruit, not constant technology training to operate the equipment tasked with the job. Making something complex is easy, we strive to make operation simple without sacrificing detail. That's why at TOMRA, we ensure our user interface is intuitive and easy to use for all operators. We take the guesswork and time out of operating your line. You can make quick changes on the go without sacrificing the overall efficiency of your line.

→ Designed for Accuracy

Spectrim contains new and more powerful grading algorithms which build a far more accurate model of each fruit.

Utilizing the detailed images generated by the system and increased computational power of TOMRA Food's unique algorithms, Spectrim delivers both incredibly powerful grading performance, quickly, and a system which is easy for the operator to use.

→ Powerful Imaging

Spectrim is the most powerful industrial imaging platform to be introduced into the produce industry. It leverages all our learnings from previous systems and developments in machine-vision systems, as well as research findings from other industries.

→ Lighting

Spectrim allows produce to be lit in a way that minimizes shadows and reflections across lanes. This ensures illumination power and consistency on your produce, which is critical for superior grading.

→ Sensors & Cameras

Spectrim's sensors and cameras generate up to 30 images of every piece of produce at the highest clarity through a combination of superior lighting and high quality optics.

Spectrim uses multiple wavelengths when processing images. Each wavelength can be configured to target specific defects.

TOMRA 5S Blueberry

The 5S Blueberry is designed with ease of use at its core, making advanced technology accessible to every packer, large or small. In blueberry classification, knowing the value, whether subtle or significant, is how you maximize your returns, and that's where LUCAi™ knows the difference.

LUCAi™, TOMRA's deep learning system, is strong because of the data behind it, backed by you, the grower.

Because TOMRA works directly with Growers globally, the system understands the nuances of genetics, natural variation and emerging defects. The result is a solution that doesn't just sort blueberries, it sets the benchmark for blueberry classification, combining accuracy, reliability and value in every berry.

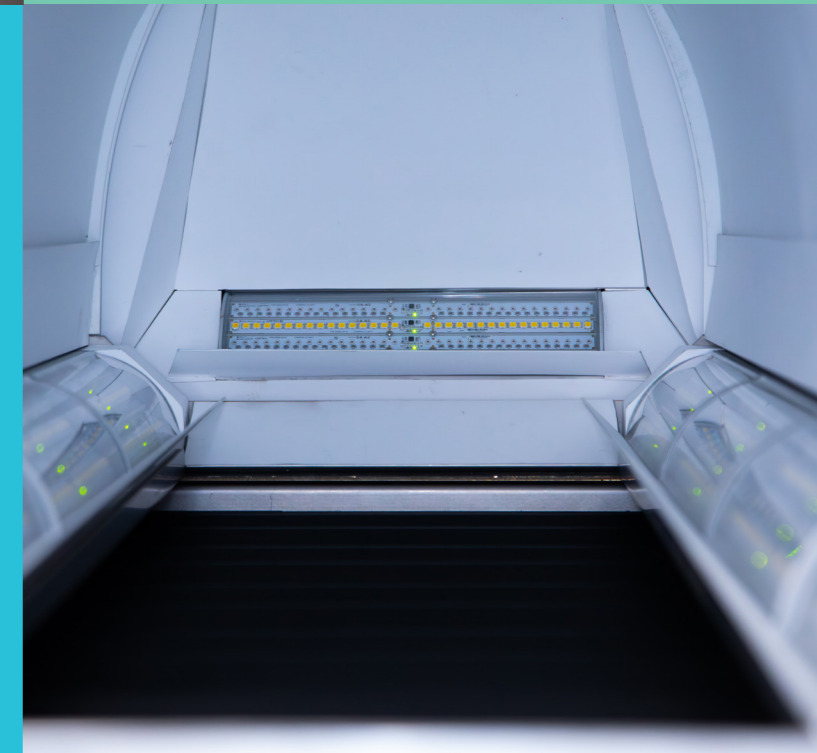
When analyzing each fruit, LUCAi™ will assign:

- **Defect Class/Category:** Identifies the specific type of defect (e.g., dehydration, splits, bruising).
- **Confidence Score:** Indicates how certain LUCAi™ is that a defect has been correctly classified.
- **Severity Rating:** Provides a 0-100 measurement of how severe the defect is, based on its size, color contrast, and spread. This gives operators clear control over how tightly or loosely they wish to sort the fruit based on quality thresholds.



Benefits of Spectrim with LUCAi™

- Prevents accidental downgrades and eliminates manual grading delays.
- Enhanced user-friendly interface ensures operators of all levels can get the most out of each model.
- Ensures consistency across seasons, batches, varieties and operators.





TOMRA

Interested to know more?
Please contact us directly
www.tomra.com/food



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