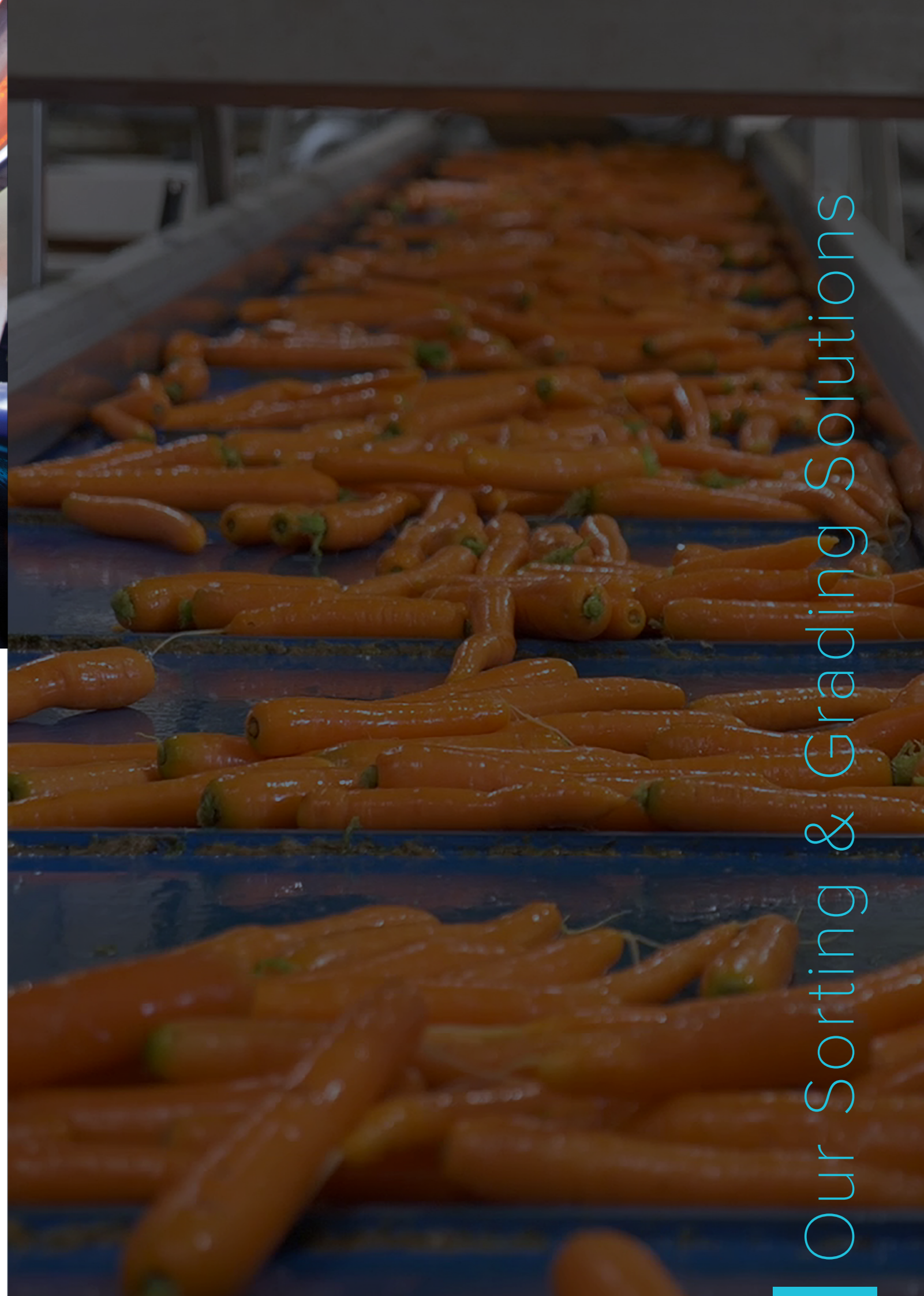




Sorting & Grading Solutions for Growers & Packers

Potatoes & Vegetables

With over 800 fresh potato and vegetable sorting machines installed globally, TOMRA Food is the undisputed global leader in optical sorting – optimizing quality and enhancing productivity for food processing organizations of all sizes through successful customer partnerships.



Technology

Pulsed LED

High resolution pulsed LED modules illuminate the product for inspection by TOMRA's proprietary spectroscopic sensors. RGB and IR frequencies enable detection of defects and even the most subtle of color differences. Pulsed LED delivers a very low total cost of ownership (TCO) through its combination of low maintenance, stability, and low energy consumption.

NIR Spectroscopy

Near infrared (NIR) spectroscopy allows the examination of produce using light beyond the visible spectrum. The technology enhances the performance of the sort by detecting produce features that are invisible to the human eye. This makes it possible to identify certain chemical and molecular differences on the surface of objects being inspected.

Laser

High-definition illumination and high-resolution sensors deliver outstanding visibility of an object. This enables sophisticated object analysis software to establish a consistent measurement for the shape of every product scanned. The sorter can then remove grossly defective items while diverting minor defects into a separate ejection pathway for further processing.

Sentinel II

The TOMRA Sentinel II is designed to deliver an efficient and effective sort of washed and peeled vegetables.

Designed for the big harvests, Sentinel II boasts up to 35 tons per hour capacity for washed vegetables. This enables the highest throughput to machine width ratio in the industry.

An impressive range of Pulsed LED sensors enable the machine to sort a wide range of foreign material and defects including discolorations, damage, and broken vegetables with optional double-sided detection and 3-way ejection sorting.

An open design makes cleaning simple, reduces required operator hours, and contributes to a low TCO.



TOMRA 5A

The TOMRA 5A is the innovative and industry-defining sorting solution for washed and peeled vegetables such as potatoes, onions, carrots and peppers.

Equipped to remove foreign material and product defects in the busiest of environments, the 5A delivers 30 tons per hour of capacity at up to 15% Incoming Defect Load (IDL).

The TOMRA 5A unlocks capacity while achieving 98%+ accuracy on foreign material and an extremely low good-in-bad of less than 1%.

Our in-depth knowledge is evident in every aspect of the 5A—from the Pulsed LED sensors, high speed ejection fingers, to the three-way sorting.

Developed to maximize yields and reduce operator labour hours, the 5A is equipped with an intuitive interface. It is extremely easy for operators to use.



TOMRA 3A

The TOMRA 3A delivers the best foreign material and dirt removal for unwashed vegetables available in the market.

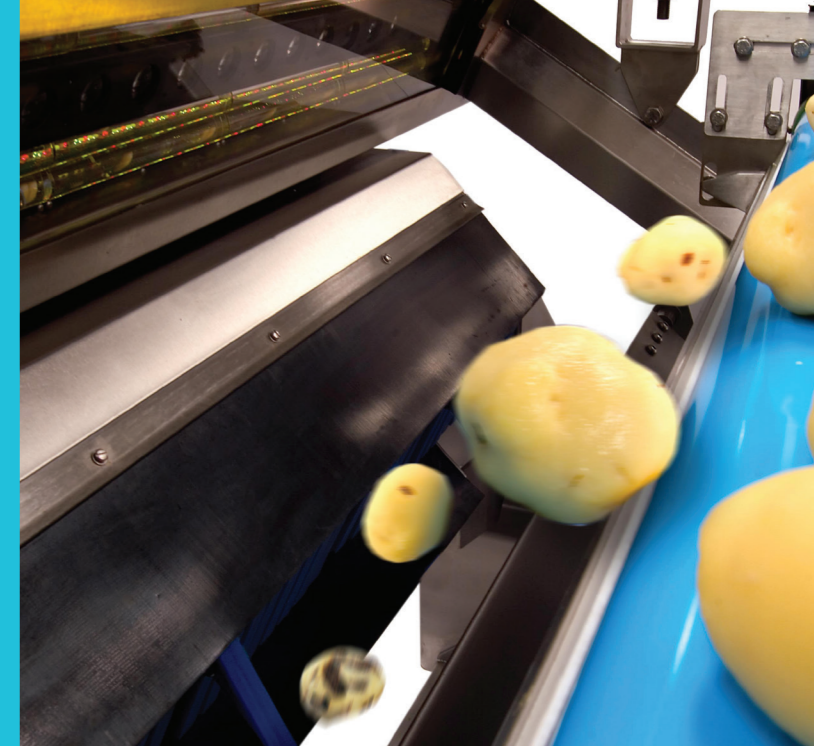
The 3A is powered by outstanding technology, including Pulsed LED sensors, an AI-powered texture classifier, and an intuitive operator interface.

A robust design and fully sealed enclosure enable the 3A to withstand tough conditions including rain, wind, dust and heat.

Designed for the biggest jobs in your facility, it boasts an outstanding capacity of up to 100 tons per hour at up to 30% IDL.

All this dramatically reduces the labour hours required, minimizes downtime, and gets vegetables such as potatoes and onions from field to storage as fast as possible.

Farmers can maximize their customer relationships by delivering exceptional quality.



TOMRA 5S Advanced

The TOMRA 5S Advanced builds on 40 years of experience of providing class-leading multi lane sorting machines that revolutionize food safety expectations.

It is the only platform truly designed for hygienic operation, with toolless cleaning and sanitization and food safe contact areas.

With its advanced connectivity features, it is designed to be the heart of the packhouse and meet the industry's evolving needs, future-proofing the customer's business for the next 10 years.

The TOMRA 5S Advanced delivers the perfect balance between gentle handling, food safety, people safety, throughput, and cost of ownership.

Advanced Inspection Systems:



Spectrim

Spectrim combines key elements within hardware, software, and operational optimization to offer the most advanced optical sorting platform.

Spectrim not only contains a number of enhancements such as SmartSkin and SmartMap, but also contains powerful grading algorithms which build an accurate 3D model of each food object. Spectrim removes the challenges of sorting produce, adding value to packed crops and reducing complexity of operation, all with increased operation efficiency.

Inspectra²

Inspectra² enables you to pack the previously unpackable batches – sorting for internal quality. Sort with confidence and ensure that you deliver a product that will delight your customer.

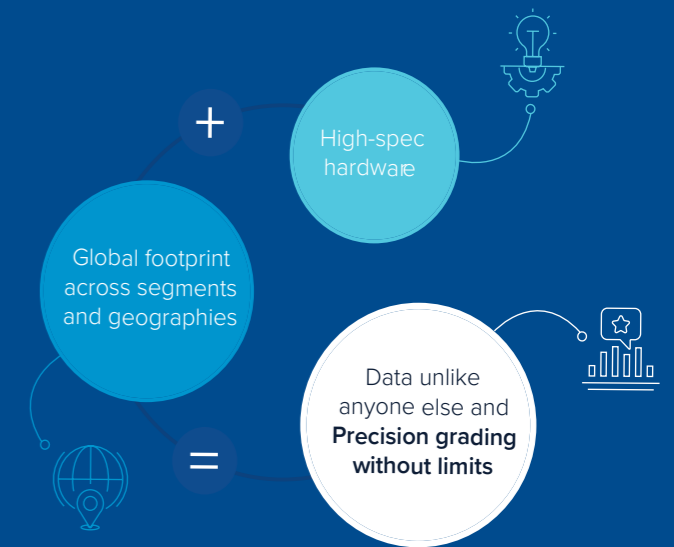


Food Solutions

Our vision is to be the **innovative, world leader in sorting, packing, and optimization** of citrus fruit. TOMRA Food solutions are equipped with the **latest technologies** and designed to **process a variety** of products based on your **unique requirements**. Our solutions can help you **quickly sort, grade and pack quality product for your customers, maximize your own profit** and support you with your **growth aspirations**.

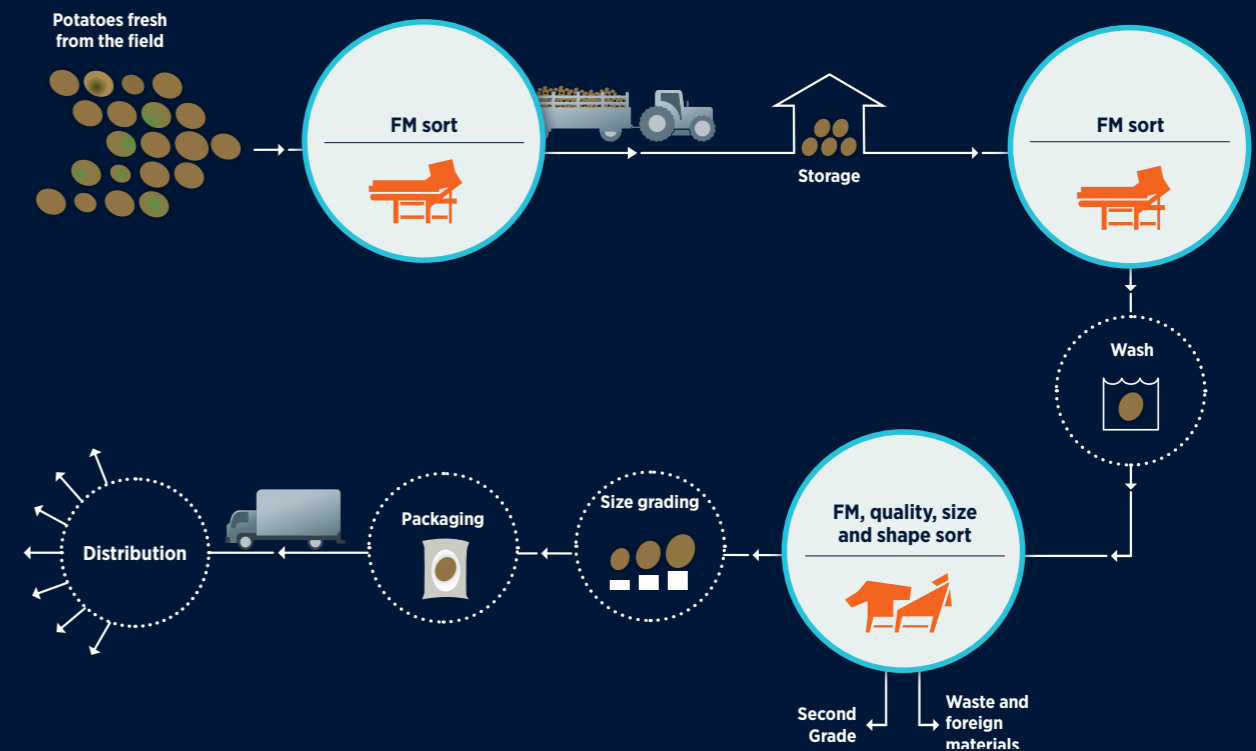
Why TOMRA?

We lead the industry because:



Processing Line Example

Depending on the production environment, throughput and other specific needs, we design the most efficient line lay-out. The actual machine configuration is defined based on TOMRA's experience with similar processors and after extensive testing.





TOMRA

Interested in a free demonstration with your own product or require more information?

Please contact us directly

www.tomra.com/food



#0825