

Integrated Sorting & Packing Solutions

Blueberries

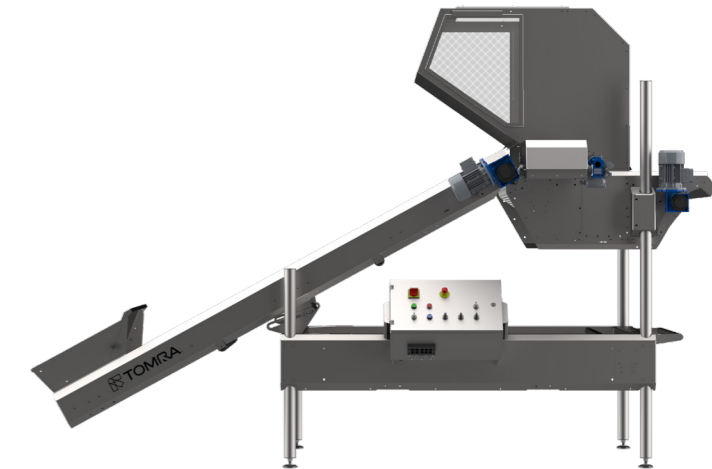


Low Drop Lift Belt

Our latest design elevator provides the necessary infeed and adjustability for your Packhouse. The belt allows the operator to tip fruit from a comfortable height with minimal effort and provide a consistent infeed to the line. We have engineered minimal contact points and transition heights to preserve fruit bloom.

Harvest Cleaner

The Harvest Cleaner removes unwanted leaves and debris collected during harvesting without reducing capacity. The Tangential Fan provides consistent airflow with precise adjustment. Our latest design has made cleaning, maintenance and service even easier with a simple slide out removable fan for adjustment, solid wear bed for cleaning and a quick pin release modular belt. Harvest Cleaner is available built onto the Low Drop Lift Belt or as a future upgrade to the Low Drop Lift Belt.



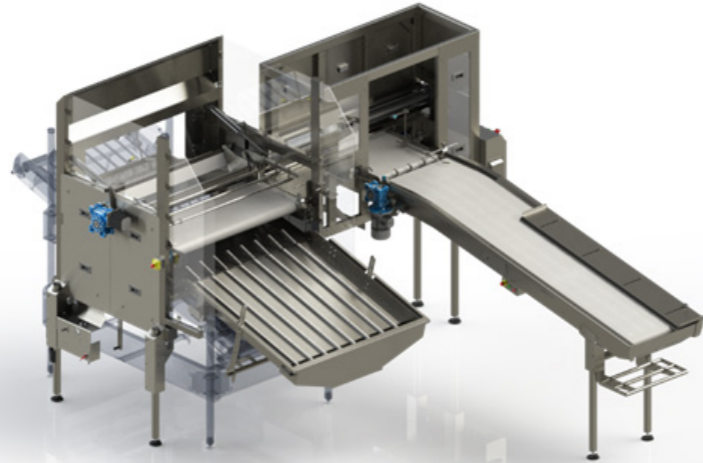
Harvest Cleaner Plus

The Harvest Cleaner Plus adds another level to debris sorting with our stick removal system. Large sticks from automated harvesting can be hazardous to your product and your optical grading machinery. Our system reliably removes sticks and large leaf debris, reducing the potential for damage. The drive is built with a robust belt system to handle challenging environments. Integrated into the Harvest Cleaner you can confidently sort fruit from any harvesting scenario. Harvest Cleaner Plus is available built onto the Harvest Cleaner or as a future upgrade to the Harvest Cleaner.



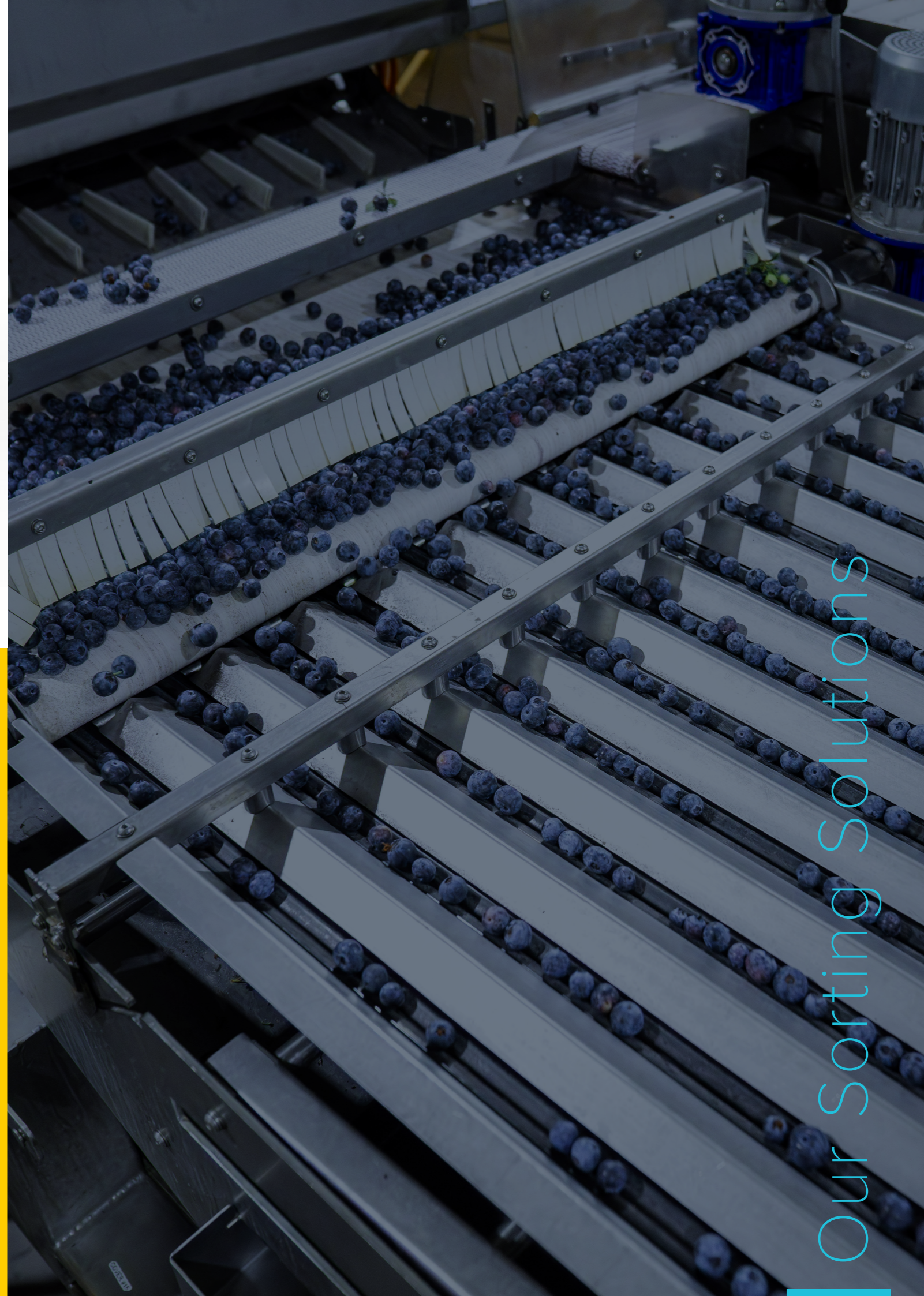
Tray Tipper

Our Tray Tipper provides a gentle, consistent flow and even spread of fruit from the tray to the lift belt. This consistency minimizes surges and optimizes the throughput of the KATO260. It also provides customers flexibility to accommodate a range of tray sizes.



Blueberry Eliminator

Our Blueberry Eliminator is designed to remove undersized and small debris material effectively and cleanly. Compact in design allowing it to fit easily into any packhouse, this machine will help the rest of your harvest be graded efficiently.



Our Sorting Solutions

TOMRA Neon

Designed with **simplicity in mind**, the TOMRA Neon enables users to remove unwanted product acquired through the automated harvesting of blueberries destined for the fresh market – an **increasingly popular global trend**.

Our **vision-based technology enhanced by Artificial Intelligence** can make intelligent decisions on pre-selection with the **removal of over 95% of clusters**.

The Neon will also remove over 90% of green and red berries from the harvest.

Combined with our **KATO260 optical sorter and sizer**, the **TOMRA Neon increases the efficiency and throughput of the line**, allowing the KATO260 to focus on selecting berries for maximum value.

A compact and durable machine that will ensure you achieve **maximum output from your harvest**.



- Uses artificial intelligence to distinguish between clusters and groups of berries.
- Intuitive user interface.
- Internal fall through chute for debris.

Maintain up to 280 berries/sec output with up to 40% fruit removal



Removes over 95% of clusters



Throughput of up to 500 berries/sec



Removes over 90% of green and red berries



KATO 260 with LUCAi®

The KATO260 is the innovative and industry defining precision grading system for blueberries. Add to it LUCAi™, our artificial intelligence technology and blueberry growers are able to deliver higher quality product to customers.

The KATO260 with LUCAi™ is the culmination of years of comprehensive research into the characteristics of blueberries, meaning it was built literally from the berry up.

LUCAi™ artificial intelligence enables your staff to maximize the performance of your KATO260, provide your customers with the highest quality product, and maximizes your returns by extracting value from every berry.



Benefits of using LUCAi®

Utilize AI

Enjoy the benefits of working smarter with the latest in Artificial Intelligence sorting technology.

Maximize profit

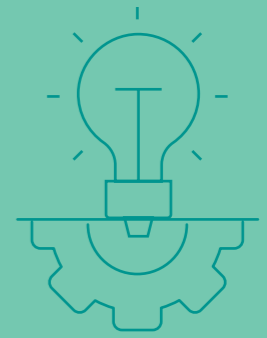
Maximize the profit from your crop by selecting each berry for its highest value and reduction of false-positives.

Ease of use

Empower your staff to easily operate your KATO260 at optimal performance and efficiency.

Quality

Ensure a high-quality product regardless of the difficulty of the fruit.



Technical Features

- In-house developed AI software for the KATO260.
- Processing up to 2,400 images/second in visible and non-visible light.
- Cooling system for optimized performance.
- We continue to teach LUCAi™, including variety-specific and seasonal specific images.

Gentle

Special consideration has been made to ensure the gentle handling of blueberries to maximize bloom retention and shelf life.



Comprehensive Surface Inspection

The KATO260's unique rolling conveyor system singulates and rotates blueberries to allow for complete 360 degree surface inspection.



Versatility

Whether sizing fruit into numerous bands or removing defective fruit, the KATO260 provides five or seven outlets for a seamless blueberry sorting option for any size packing facility.



Precision Grading

Cameras take multiple pictures of each piece of fruit and are capable of identifying defects down to 0.2mm ensure a maximum level of accuracy in sorting for size, color, softness, bruising, decay, dehydration, stems, peeling and scarring.



Speed

The KATO260 can accurately sort at speeds of up to 286 berries per second.



Cleaning

The machine is built in stainless steel and has a clean-in-place functionality, along with fully wash down spec components for ease of cleaning.





CURO

The development of the CURO platform was built through our **over 20 years' experience in blueberry packing.**

At each step we have set the **benchmark for accuracy, gentle handling, speed and a world class user interface.**

Our knowledge is evident in every aspect of the CURO from the open platform design to the preservation of bloom. To built in help guides to detail each and every available setting allowing a **new operator to quickly gain proficiency and adapt to changing fruit conditions.**

Our CURO filling solutions are capable of **consistent, high-speed filling at precise weights and across multiple commodities.** We have four different machines across the CURO range.



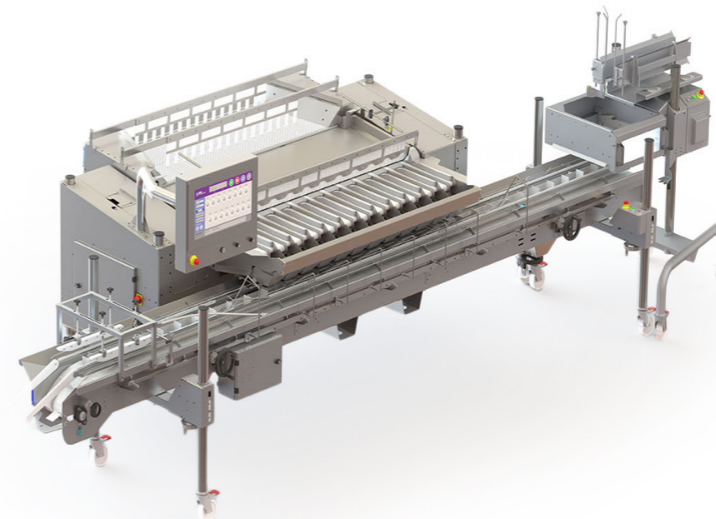
CURO 2, 8, 12 & 16

The CURO is versatile, with the ability to easily switch between packaging types such as clamshells, punnets and cups. Gentle on produce, **the CURO has a small drop from conveyor belt to hopper, ensuring your product isn't damaged during sorting and packing.**

Minimal elevation transitions coupled with anti-bruise surfaces ensure that fruit bloom is kept intact.

The CURO system has a variety of functional options, **including moving fill, twin fill automatic sensor line stop and connectivity** to downstream options such as heat sealers and packing tables.

The CURO filling system is capable of consistently **packing at speeds of up to 240 clamshells per minute** (dependent on reliable quality clamshells and quality fruit).





Benefits

With the flexibility to switch between a wide range of packing options. These machines are all highly suited to packers with demanding filling requirements.

- Fastest speeds in the market
- Accurate
- Gentle on fruit
- Multiple fill options to suit a wide variety of packaging



Dual Ram denester

The Dual Ram denester is made for clamshells and can accommodate a wide variety of designs with intuitive adjustment.



Cassette denester

The Cassette denester uses custom designed cartridges specific to each punnet design ensuring reliable delivery of every punnet to the CURO system

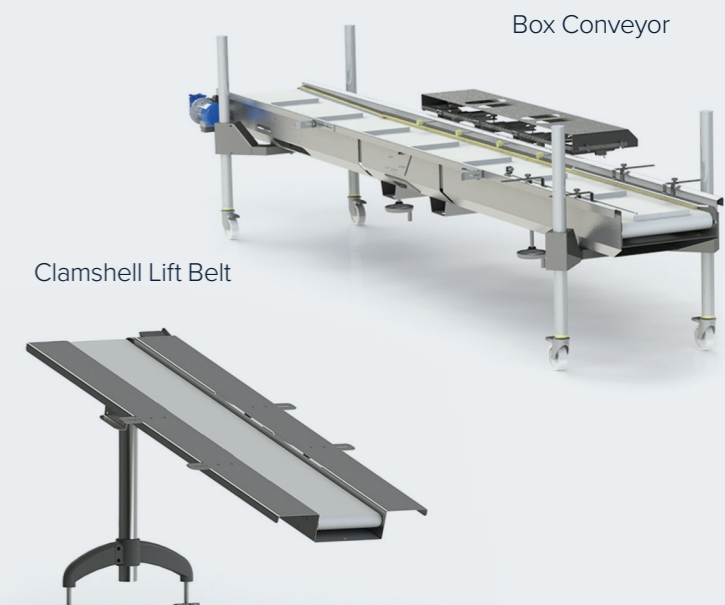
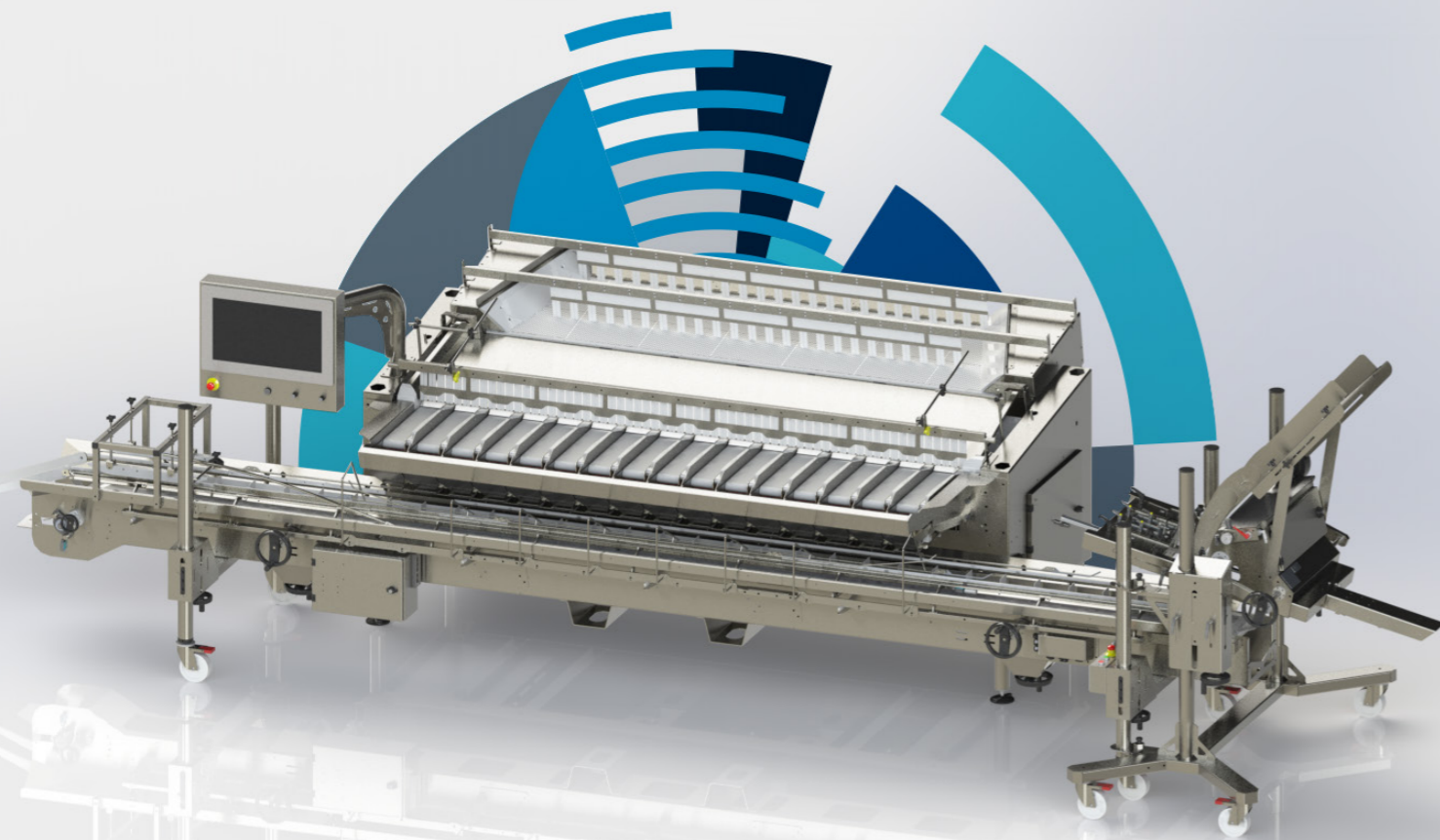


Box Conveyor

The Box Conveyor is used for transporting boxes and positioning them under our CURO machines to receive fruit. It has adjustable speed with wipe down modular belts for easy cleaning.

Clamshell Lift Belt

Our Clamshell Lift Belt is a small inclined belt which transports packed clamshells from our filling and packing machines to the Packing Table or Rotary Pack Table. It has an adjustable speed with provision for printing and labelling solutions.



Box Lift Belt

The Box lift belt is the perfect option for those looking to pack both clamshells and larger boxes, the box lift belt is adaptable to both carriers and can pivot to feed either the middle section of the 3-tier pack table for clamshells or the lower belt for boxes.



3-Tier Pack Table

Our 3 Tier Pack Table is designed to help pack finished product into trays. The top tier is used to store packing boxes while the center belt conveys punnets from packing machines. The lower conveyor transports packed boxes to the end for pallet stacking. Available in 3.6 m (12 ft) or 4.5 m (15 ft) lengths.



Station Box Filler

Our Station Box Filler is designed for accurate, high-volume box filling. It can accommodate a variety of box sizes and weights. This filler fully integrates with our KATO260 with LUCAi system.



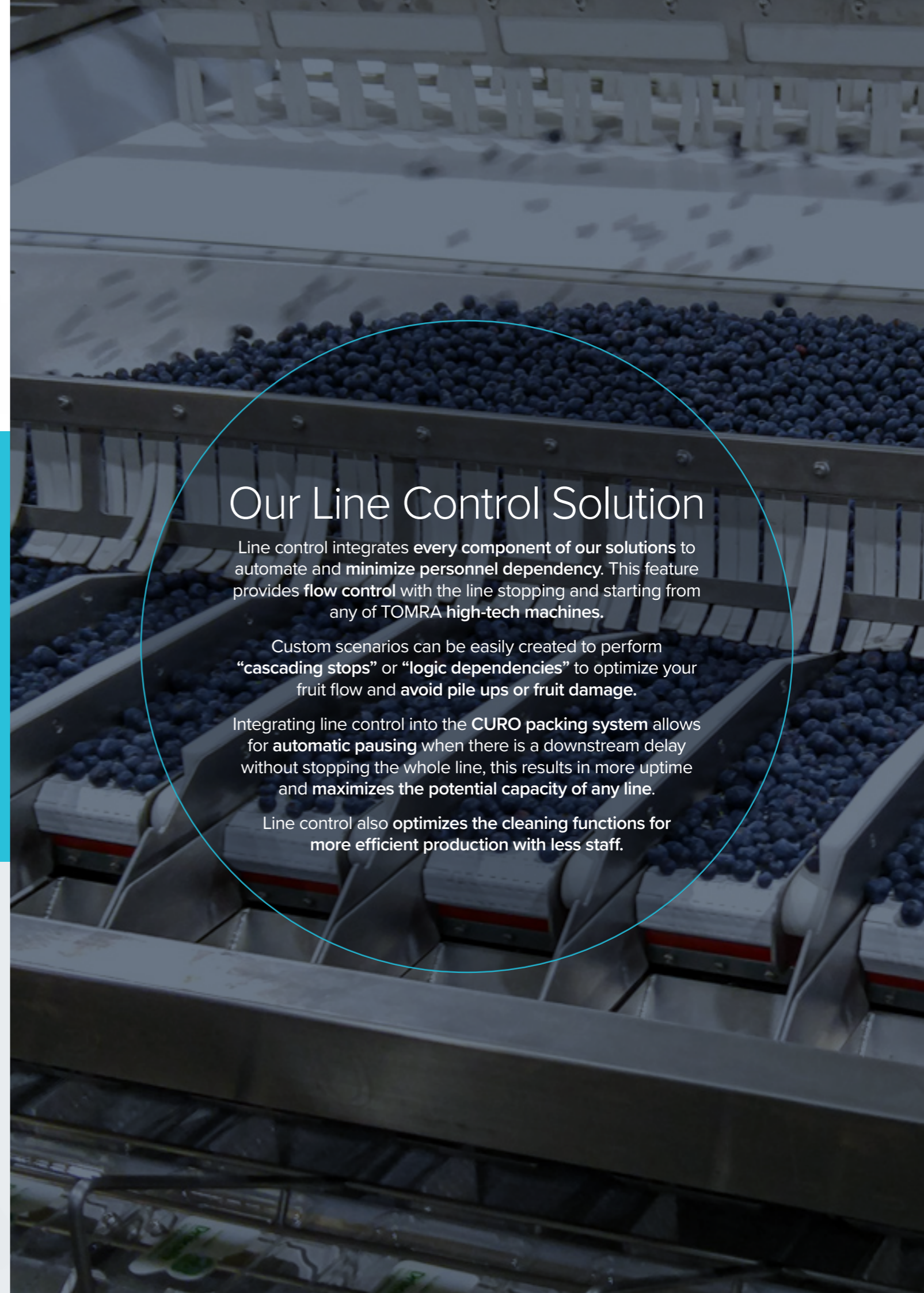
Our Line Control Solution

Line control integrates every component of our solutions to automate and minimize personnel dependency. This feature provides flow control with the line stopping and starting from any of TOMRA high-tech machines.

Custom scenarios can be easily created to perform “cascading stops” or “logic dependencies” to optimize your fruit flow and avoid pile ups or fruit damage.

Integrating line control into the CURO packing system allows for automatic pausing when there is a downstream delay without stopping the whole line, this results in more uptime and maximizes the potential capacity of any line.

Line control also optimizes the cleaning functions for more efficient production with less staff.





TOMRA

Food Solutions

Our vision is to be the **innovative, world leader in sorting, packing, and optimization** of blueberries. 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**.



Supporting the global Blueberry Industry

With over **2,800 lanes of optical blueberry sorting and installations in over 40 countries**, TOMRA Food is the leader in integrated solutions for the Blueberry industry.

TOMRA Food offers **integrated packhouse solutions for all sizes of operations and varieties of blueberries, and from fresh to frozen**. In addition to size, color, softness, bruising, decay, dehydration, peeling and scarring, we also offer artificial intelligence systems for superior grading across calyx, stem hole, and advanced defect detection.

When this **sorting technology** is combined with our **infeed and packing solutions** TOMRA can look after your **complete post-harvest operation**.

With TOMRA you can have technology from a worldwide company with **localized service and post-sales support**, ensuring you continue to get the best from your TOMRA solutions.



Helping our customers succeed

TOMRA understands the Blueberry industry, and we know things are changing quickly. Whether you're a grower, packer or importer, we know what you need to succeed. You can rest assured that our solutions will focus on what's important to you.

- Gentle handling, bloom retention and fruit treatment.
- Improved operational efficiency & manual labour reduction.
- Specific classification of blueberries and accurate defect detection.
- High speed and accurate filling systems.
- Simple & intuitive user interface.
- Modular solutions that can grow as your business does.
- Minimal footprint.

Right product, right pack, season after season: AI at TOMRA

Setting the right grading tolerance takes discussion, time, effort, and labor – and the one thing that remains the same is that the next season will be different.

TOMRA Food's AI capabilities extend across our entire active product line. From deep learning to simple machine learning applications, our AI features and capabilities support your strategic decision-making and lift the burden from your operators.

The result: right product, right pack, season after season – no matter where the year takes your business.



Where will we go next?

TOMRA Food aims to extend its deep learning algorithms across the commodities we serve – and go further. We're constantly working towards offering more precision to our customers with improved usability, so operators can raise the bar on best performance.

One thing we can predict is constant change in the global food industry, and TOMRA will be here every step of the way to support our customers, existing and new, through this journey.

“We are grateful that we installed TOMRA machines, and have since doubled what we initially installed. Our business, without TOMRA is unimaginable.”

Gert Bezuidenhout, Managing Director
Ambrosia Citrus Estate



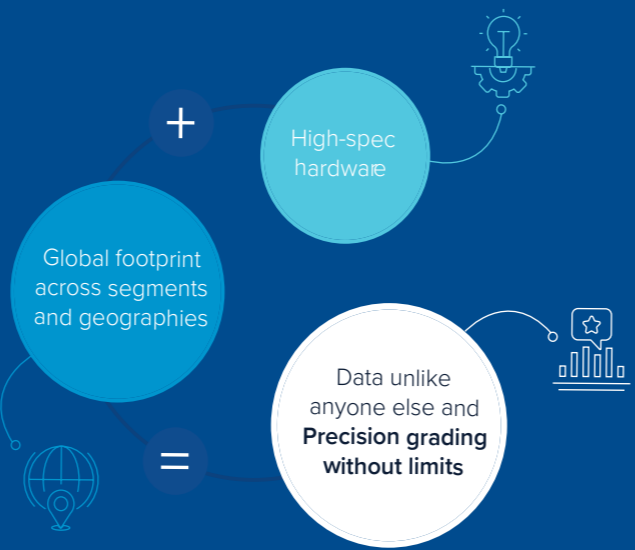
“You can be sure that all the fruit that passes out through the Kato is good fruit, and every rejected fruit is bad.”

Francisco Novales,
Director at Agricola - El Alamo



Why TOMRA?

We lead the industry because:



TOMRA Food Offices & Blueberry Customer Locations



● TOMRA Food Offices ● Blueberry Customer Locations



TOMRA

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

Please contact us directly

www.tomra.com/food



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