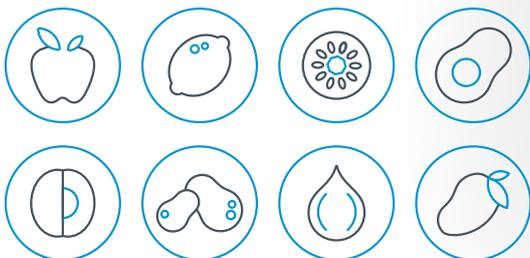


**SORTERS**

# TOMRA 5S ADVANCED



# TOMRA 5S Advanced

## Introducing the World's most Advanced Fruit Sorting Platform

The new TOMRA 5S Advanced builds on the class-leading performance of Compac's Multi Lane Sorter and revolutionizes 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 digital heart of the packhouse and meet the industries' evolving needs, futureproofing the customer's business for the next 10 years.

Redesigned from the ground up, the TOMRA 5S Advanced represents a major evolution in the industry delivering the perfect balance between gentle handling, food safety, people safety, throughput, and cost of ownership.

### Pure Hygiene



The revolutionary modular design of the Food Trust components mean that the TOMRA 5S Advanced can be cleaned thoroughly without specialist mechanical skills to dismantle parts of the machine. Regular tasks such as removing and cleaning crossbelts, which would have previously been measured in hours, now take just 5 to 10 minutes, and no longer require specialized staff and tools. In addition, the new design has smart features such as a cleaning mode that allows the line to continue running at a safe speed while the staff clean the belts.

### Pure Gentleness



The TOMRA 5S Advanced builds on Compac's reputation for gentle handling while implementing food safe and easy to clean materials – something that took Pure Innovation to achieve. Traditional padded surfaces have been replaced with sculpted stainless steel and molded polymer surfaces delivering an improvement in IRD (impact recording device) results and fruit flow. Furthermore, the new singulation design improves handling, reduces spill, and enables optimization for multiple produce types.

### Pure Connectivity

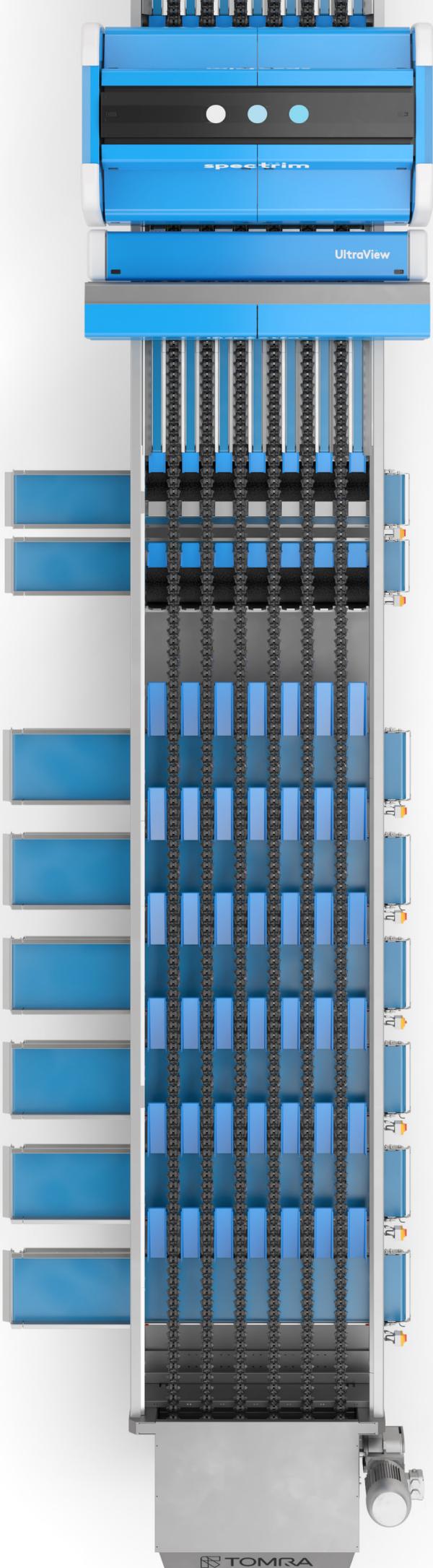


The TOMRA 5S Advanced has been designed to connect and integrate with the packhouse's systems and become the digital heart of the facility. It is digitally enabled to connect to Cloud data platforms such as TOMRA Insight or other APIs, enabling better flow of information up and down the supply chain and helping your operation make better data driven decisions.

### Pure Longevity



It's in Compac's DNA to support our customers and their new requirements as they evolve. Compac sorters have a well-established reputation for their longevity, being highly reliable, extremely robust, and upgradable as new technology is developed. The TOMRA 5S Advanced is true to this heritage and has been designed to be an advanced platform that grows with our customers business, futureproofing their business for the next 10 years.



The only platform truly designed for hygienic operation with toolless cleaning and sanitization and 100% stainless steel and food safe polymer contact areas.

## Pure Service



To ensure your packhouse runs at peak performance, the technology must be supported, tested, maintained, and upgraded to the highest level. The modular toolless design of the TOMRA 5S Advanced combined with innovations such as our QR Code based interactive servicing guides help ensure that your equipment always runs at its peak performance.

## Pure Reliability



All the materials have been specifically selected to stand up to the challenging environments within a packhouse and are resistant to juice and other corrosive elements. The electrical backbone has been completely redesigned to further enhance reliability, and new innovations such as individual drum drives, jointless belts, low stretch chain, isolated weigh bridge, and new virtually indestructible polymer chutes, build on the existing design to make the industries most reliable fruit sorter, even better.

# TOMRA 5S Advanced

World-leading technology for world-leading packhouses



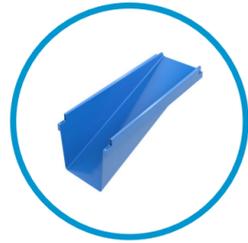
### FOOD TRUST FRONT

- Key contact areas are stainless steel or food safe polymer
- Toolless design for easy cleaning & maintenance
- Inclined front for better singulation
- Redesigned lane dividers improve gentle handling and versatility when sorting multiple fruit types



### ADVANCED CARRIER DESIGN

- Compac's proprietary carrier design enables a single carrier to gently singulate, rotate, weigh and eject produce without any additional fruit transfers
- Dual sided tipping to improve gentle handling



### NEW CLIP OUT POLYMER CHUTES, BACKSTOPS & SWEEPS

- New polymer chute outlets deliver improved fruit flow and maintain excellent handling in an easy to clean design
- New brush drop outlets maintain class leading handling while delivering easy brush exchange and maintenance



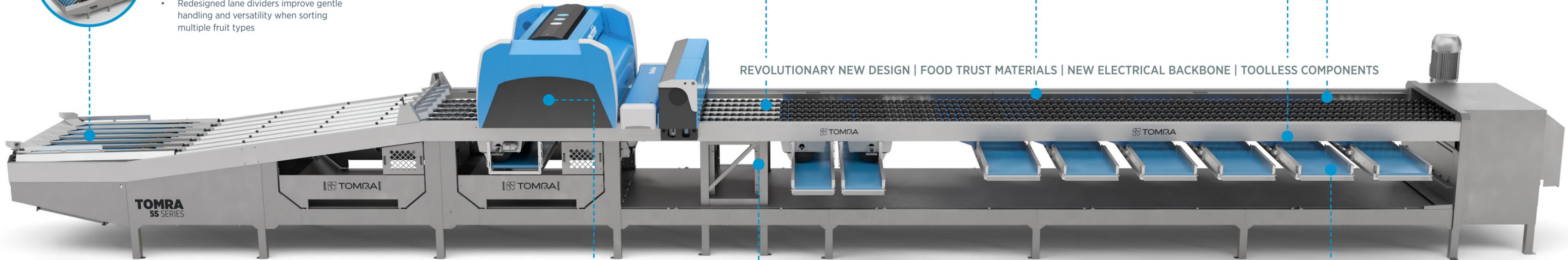
### NEW SOFT-TIPPING SOLENOID

- Food Trust solenoid delivers improved reliability of maintenance through a simple clean-in-place design
- Dual sided tipping to improve gentle handling
- Juice resistance hygienic design

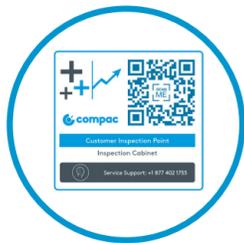


### NEW COMPAC CHAIN

As we push the sorter longer the quality of the chain becomes vital to maintaining performance. The new Compac chain reduces wear, enhances corrosion resistance and mitigates chain-stretch, improving reliability and machine uptime



REVOLUTIONARY NEW DESIGN | FOOD TRUST MATERIALS | NEW ELECTRICAL BACKBONE | TOOLLESS COMPONENTS



### QR CODES FOR AUGMENTED SERVICE

Enhanced service options with QR codes that provide instant access to a range of maintenance and service tools with specific content for critical parts of the machine



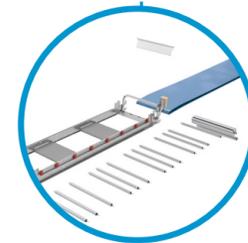
### DIGITAL HEART OF YOUR PACKHOUSE

Position your company with the right strategies, technologies, and tools so you can leverage data efficiently to support your packhouse's growth and expansion for the years to come



### ISOLATED WEIGH BRIDGE

Provides industry leading accuracy and requires less frequent calibration because the isolated design removes machine vibration and other interferences

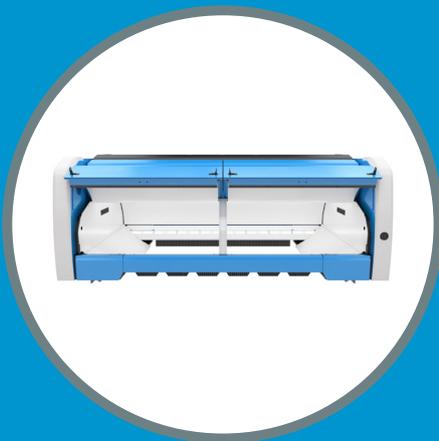


### FOOD TRUST CROSSBELTS (OPTIONAL)

- Toolless detentation and removal of components
- Clean-out-of-place (COP) designs enable the swap of contaminated components in a few minutes
- Reduced cleaning downtime for maintenance

# Advanced Inspection Systems

Sorting and grading is central to Compac's packhouse solution and incorporates our industry-leading Spectrim, Inspectra<sup>2</sup> and Ultraview systems. These innovative systems allow packhouses to reduce the labor required for sorting, whilst significantly improving the consistency, accuracy, and packout of the sorted product.



## SPECTRIM

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Spectrim is the industry's most powerful optical sorting platform. It allows our customers to reduce labor and tighten control of what fruit goes into the box, reducing waste and getting more of their crop graded as a premium product.



## INSPECTRA<sup>2</sup>

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Inspectra<sup>2</sup> enables you to pack the previously unpackageable batches – sorting internal defects with confidence and ensuring that you deliver a product that will delight your customer.



## ULTRAVIEW

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Our new inspection module integrates with the Compac Spectrim cabinet to provide ultimate detection of defects located in the critical stem bowl and tip areas of the fruit.

# Specifications and Options

## **SORTER OPTIONS**

### **Hardware**

- Unlimited number of outlets
- Long machine length capability - 100m\*
- Inactive lanes for easy capacity expansion
- Outlet display modules
- Automatic lubrication system for chain
- Semi-automatic carrier cleaning system
- Labeling interface

### **Inspection**

- Spectrim - External grading (Color, diameter, shape, density, blemish)
- Ultraview - Stem/calyx external grading
- Inspectra<sup>2</sup> - NIR for internal grading (Brix/Dry Matter/Internal defect)

### **Automation**

- Optimizers - increase yield by reducing pack weight giveaway
- Throughput control - automatically adjust infeed speed to maximize production throughput
- Intelligent fruit allocation to outlets - maximize packout rates
- Individual element mixing - maximize yield and grade to pack tolerances

### **Service**

- Compac Care = Proactive Maintenance Program
- CSAP = The program provides customers with all of the latest updates, upgrades and enhancements developed by Compac, for a single annual subscription fee

## **PACKING OPTIONS**

- Semi automatic/Manual baggers
- Tray fillers
- Volume filling for cartons/boxes
- Punnets fillers
- Bin filler systems
- Weighing and non weighing gentle box filling systems

## **SPEED**

Maximum speed 720 carriers per minute\*

## **OUTLETS**

Unlimited number of outlets

## **WEIGHING SYSTEM**

- Proprietary dual load cell, with four simultaneous contact points to maximize accuracy
- Vibration isolated weigh bridge structure
- 250 readings per fruit

## **ACCURACY**

Standard deviation when using 100gm weight(at 600 carriers per minute): 1 gms/0.04 oz\*

- Exact pack (bagging (1kg/2lb) 45 gms/1.59 oz\*
- Exact pack (carton) (18kg/40lb) 220 gms/7.76 oz\*
- Average pack (carton) (18kg/40lb) 270 gms/9.52 oz\*

## **DELIVERY SYSTEM**

- Patented Soft tip solenoid system for gentle handling
- Dual side tipping solenoids - reduces fruit on fruit impact
- Plastic Injection molded chutes, sweeps and backstops
- Gentle delivery brush drops
- Crossbelt with quick detensioning mechanism and endless belt for easy cleaning

## **CARRIERS**

Patented single carrier design for singulation, inspection, weighing and ejection

- G carrier - 95 mm (3.75") pitch
- H carrier - 114mm (4.5") pitch

## **ENVIRONMENT**

Specifications available for the following operating environments:

- Dry, dusty
- Damp/humid
- Acidic or corrosive fruit juices (citrus/tomatoes)
- Wet environment

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\***Dependent on produce sorted and machine configuration.**

**The above specifications are subject to change without notice due to continuous developments.**