



compac


SORTERS
MLS

Compac MLS Sorters

Compac Multi Lane Sorters are at the heart of a Compac solution, functioning as either pregrading or packing lines within the packhouse. Compac can provide a system for operations of all sizes, from packhouses requiring only a small sorter right through to solutions which incorporate infeed and peripheral equipment; along with software options such as Compac Pack Printing and traceability. Compac is able to design a customized solution and provide a complete turnkey installation utilizing the expertise of members of the global Compac Group of companies.

Compac MLS sorters can be designed with extra capacity to future proof the packhouse for later growth. Lanes can be specified as inactive until required to increase capacity. Similarly, solutions are built with future expansion in mind, allowing extra capacity and automation to be added later to cope with higher throughput.

The Compac MLS can be configured to achieve the highest possible throughput, whilst ensuring that produce is handled gently.



COMPAC CARRIERS HAVE THE ADVANTAGE OF BEING ABLE TO PROVIDE BOTH THE ROLLER ROTATION NECESSARY FOR INVISON INSPECTION AND ALSO THE TRANSPORTATION OF PRODUCE TO THE CORRECT OUTLETS.

COMPAC ROLLER CARRIERS

Compac MLS machines make use of the Compac roller carrier system. Compac carriers have the advantage of being able to provide both the roller rotation necessary for InVision inspection and also the transportation of produce to the correct outlets. This eliminates the need to transfer produce between two different carrier systems, thereby eliminating the chance of damage.

The Compac MLS is also capable of “dual side tipping” meaning produce can be delivered to both sides of the carrier. Compac Sizer software allows the machine to make decisions on where to place produce and ensures that two pieces of produce that go to the same outlet are tipped to alternate sides of the lane, maximizing the distance between each piece and eliminating fruit on fruit contact.

COMPAC SIZER CONTROL SOFTWARE

All Compac sorters utilize Compac Sizer control software which allows operators to control the sorter from a central location. A graphical layout of the sorter shows the status of the various outlets, along with how much produce is flowing over the sorter at a given moment. Compac Sizer

software also contains a number of optimizers which can be used to fill packs with greater accuracy, reducing product giveaway and making all pack weights more consistent.

The Compac Sizer software package also contains a suite of production analysis tools, so packhouses can store their production data and measure their performance, relative to any changes which are made in the sorting line. This software package can also be expanded to form part of a full traceability solution for a packhouse including Compac Pack Printing software and integration into 3rd party ERP systems.

INSPECTION SYSTEM

Compac MLS machines can be fitted with Compac InVision or Spectrim. Compac's Inspection Systems are extremely accurate and consistent for sorting produce based on its size, shape, color and external blemish. Using multiple cameras, Compac's Inspections Systems take up to 500 images of each individual piece of produce, rotating it on the carriers as it passes through the cabinet. Rotation, combined with the camera system allows Compac software to construct a 3D model of the entire surface area of each individual piece of produce.

Compac software has a high degree of customization, allowing packhouses to define their own colors, shapes and defects. These defined parameters can be saved and recalled later making the system easy to use.

Compac MLS machines can be fitted with an Inspectra system. Inspectra is a safe, non-invasive, near-infrared (NIR) technology used for testing the internal properties of your produce.

LONG MACHINE CAPABLE

Compac carriers run on a single chain (one lane of fruit per chain), giving lower fruit loading than two-lane single-chain systems. In addition Compac has extensively researched and deployed new technology to overcome the two main limiting factors on the length of sorters, chain life and chain elongation. There are high service costs associated with reduced chain life and chain elongation significantly impacts on the consistent delivery of produce to outlets. Overcoming these two challenges means that customers can now run longer Sorters with more outlets to cater for their packing requirements and packhouse configuration.

FOOD TRUST

Compac's Food Trust development programme brings together resources with the responsibility of understanding customers' requirements, government regulation and industry compliance to deliver new hygienic products and solutions.

The Compac Food Trust programme encompasses four key areas:

Expertise - An in-house specialist food trust team that includes engineers and compliance experts.

Product Design - Application of hygienic product design and cleaning procedures, aligned to international guiding principles.

Materials - Research and development into hygienic materials to apply to equipment design.

Collaboration - Cooperative R&D with customers, institutions and industry associations.

Compac is committed to partnering with customers and collaborating with the industry to develop equipment and improve processes to ensure safety within the fresh produce supply chain.

Specifications and Options

SORTER OPTIONS

Optimizers for exact pack weights reducing product giveaway

InVision 5000 - Color/Diameter/Shape

Spectrim - Blemish/Color/Diameter/Shape

NIR - Brix/Internal defect

Throughput control - to maximize production

Automatic distribution control to outlets - for consistent filling

Smart produce distribution strategies for optimum efficiency

Outlet display modules - LCD displays

Semi-automatic carrier cleaning

Automatic pressurized chain lubricator

Remote technical support system

Labelling interface

PACKING OPTIONS

Semi-automatic and manual baggers

Trayfillers

Volume filling for cartons and boxes

Pack tables

Rotary pack tables

Pack belt tables

Punnet fillers

Bin filling systems

Gentle box filling

Weighing gentle box filling

SPEED

Maximum speed 800 carriers per minute per lane*

WEIGHING SYSTEM

2 load cells per lane, simultaneous contact

Continuous individual cup tare

250 readings per fruit

ACCURACY

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

OPTIMIZATION

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*

CARRIERS

Model	Pitch
G	95 mm (3.75"), 127 mm (5")
H	114mm (4.5")

*Dependent on produce sorted and machine configuration.

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