



SORTERS  
SLS & DLS


## Compac SLS and DLS Sorters

Compac Single and Dual Lane Sorters (SLS & DLS) are versatile platforms which can be used as the primary sorter for small to medium packhouses sorting between 1 to 8 metric tonnes per hour. SLS & DLS machines can also be used as a packing line when connected to a larger Compac Multi Lane Sorter (MLS).

The key strengths of Compac SLS & DLS sorters lie in their flexibility to pack into a variety of packaging types ranging from poly and tote bags through to boxes, cartons, punnets and trays; along with their utilization of the Compac Spectrim and Inspectra inspection systems for accurate color, external defect, internal defect, and BRIX sorting. This flexibility allows packhouses to respond quickly to the demands of their supply chain, offering a variety of consumer ready packaging types at short notice.

Compac SLS & DLS machines are designed to function within a variety of packhouse environments. Stainless steel options are available for wet conditions, and standard powder coated options for dry conditions.

Both the Compac SLS & DLS can be provided as fully tested plug and play machines or as part of a full turnkey solution from bin tip through to palletization.



**A KEY STRENGTH OF OUR SLS AND DLS MACHINES IS THEIR ABILITY TO PACK INTO A WIDE VARIETY OF PACKAGING TYPES, RANGING FROM BAGS AND TOTE, THROUGH TO BINS, BOXES, CARTONS, PUNNET AND TRAYS.**

### COMPAC SIZER CONTROL SOFTWARE

All Compac sorters utilize the highly configurable Compac Sizer control software allowing SLS & DLS customers to benefit from the latest technology and future developments.

The software 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 analysis tools, so packhouses can store their 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.

### DLS CENTER RECYCLE

The DLS sorter features a central recycle belt running the length of the machine, and two shorter side recycle belts near the infeed. This design allows unstable, or fruit with no assigned outlet, to recycle with minimal transfers and minimal drop height in order to prevent fruit damage.

### COMPAC ROLLER CARRIERS

Both the SLS & DLS make use of the Compac roller carrier system. These carriers are versatile, offer gentle handling, and ensure accurate weighting and optimal grading performance.

In particular, the produce specific carrier design combined with the single carrier concept, which reduces transfers, prevents fruit damage.

The Compac SLS is also capable of delivering produce to each side, allowing the machine to have packing outlets on both sides, significantly reducing its footprint within the packhouse.

### COMPAC INSPECTION SYSTEM

Compac SLS & DLS machines can be fitted with Compac Spectrim external inspection and Inspectra internal inspection. The Spectrim system is extremely accurate and consistent for sorting produce based on its size, shape, color and blemish. Using superior illumination and multiple cameras, the Spectrim system takes up to 500 images of each individual piece of produce while rotating it on a carrier as it passes under the cabinet. The rotation, combined with the Spectrim camera system allows the Spectrim software to construct a 3D model of the entire surface area of each individual piece as it is inspected.

The Inspectra system is a safe, non-invasive near-infrared (NIR) technology that enables the sorting of produce based on their internal properties calculated using spectroscopy hardware and advanced modelling software.

# Specifications and Options

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## SORTER OPTIONS

Spectrim - External grading

Inspectra NIR - Brix/Internal defect

Throughput control - to maximize production

Smart produce distribution strategies for optimum efficiency

Optimizers for exact pack weights that reduce product giveaway

Outlet display modules – LCD or LED displays

Semi-automatic carrier cleaning and automatic lubrication system

Remote technical support system

Labelling interface

## PACKING OPTIONS

Semi-automatic and manual baggers

Trayfillers

Volume filling for cartons and boxes

Rotary tables

Punnet fillers

Bin filling systems

Moving Outlet Sorter (MOS)

## 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")

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\*Dependent on produce sorted and machine configuration.

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