compac

SORTERS
SMALL FRUIT SORTER

Compac SFS Cherry Sorters

The Compac Small Fruit Sorter (SFS) is the most advanced cherry sorter available, providing gentle handling from infeed to pack, industry leading size, shape, color and defect sorting, and high throughput.

Designed for the most sensitive cherry varieties, such as Rainer and Royal Anne, the SFS improves packhouse throughput and consistency of pack, while providing significant labor savings for all varieties of Cherry.

The SFS is scalable and can be configured from a small sorter to a high-volume turn-key solution incorporating infeed and peripheral equipment; along with software options allowing traceability, data analytics and ERP integration.

COMPAC SFS DELIVERS EXTREMELY HIGH LEVELS OF ACCURACY AND CONSISTENCY WHEN SORTING AND GRADING CHERRIES

DYNAMIC LANE BALANCING

Using data from the Compac Sizer software and diverters at the start of the sorter, Dynamic Lane Balancing automatically makes sure that lanes with too much fruit divert some of this to lanes with lower cupfill. The result is an optimal distribution of cherries across lanes that ensures an efficient use of the sorter's capacity and minimizes any recycle.

COMPAC SIZER CONTROL SOFTWARE

Compac Sizer control 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 many cherries are flowing over the sorter at a given moment and their corresponding grades.

The Compac Sizer software package incorporates a suite of production analysis tools, so packers can store production data and measure their performance, relative to any changes which are made in the sorting line. This software package can 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.

Information from Compac Sizer can also be outputted to various displays and used throughout the packhouse to inform staff on production statistics, recommend how many staff should be on an outlet and communicate global messages.

COMPAC INVISION 5 VIEW DEFECT SORTING SYSTEM

Compac SFS solutions are fitted with Compac InVision 5 View external inspection technology that features color and infrared cameras, and five camera views to sort cherries by size, shape, color, and surface defects.

The InVision system takes up to 90 images of each individual cherry as it is rotated both forward and back-wards under the cameras. Using five different camera views, including ultra-low angles, allows the system to capture well-illuminated, high resolution images of more of the cherry. These unique camera views make the Compac InVision 5 View more accurate at differentiating between the stem and blemishes.

GENTLE TRANSFERS FOR DELICATE HANDLING

Every part of the SFS has been designed from the ground up to be as gentle as possible, ensuring that cherries are not damaged as they flow across the machine. Using the unique combination of water flumes, proprietary hydro-cushions, water v-belts, gentle ejection and few transfers enables even the sorting of varieties such as Rainier and Royal Anne at production speeds while providing effective singulation and consistently high cupfill.

SOLUTIONS PROVIDER

Compac provides packhouse solutions from bin/tote and infeed equipment through to packing options, carton handling, palletizing and traceability solutions. Compac leverages the specialities of its associated companies within the wider Compac Group to deliver a fully integrated solution.

Specifications and Options

SORTER FEATURES & OPTIONS*
Unlimited number of lanes

Dynamic Lane Balancing for an even distribution of cherries

Hydro-cushions and dewatering v-belts for gentle, well-spaced singulation

Auto line speed control - to maximize cupfill and throughput

Automatic distribution control to outlets

Gentle air ejection into flumes

Specially designed flumes for gentle, high-speed transport of cherries

Outlet display modules for facility-wide communication

Remote technical support system

INVISION OPTIONS
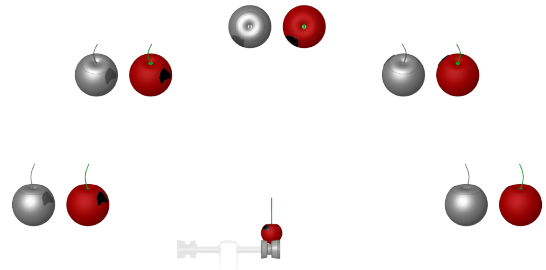Five views of every cherry for maximum surface coverage

Forward and reverse rotation during inspection of cherries

SPEED
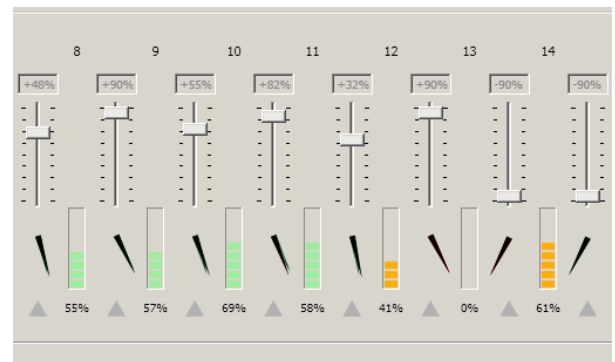Maximum speed: 1800 carriers per minute per lane*

High intensity LED lighting for complete illumination and inspection of cherries

5 VIEWS OF THE CHERRY

The unique Compac 5 view system analyzes more of the cherry's surface. It also removes false positives which can be caused by the cherry's stem being classified as a defect.

DYNAMIC LANE BALANCING

The Compac Dynamic Lane Balancing interface maintains an even flow of cherries across all lanes for maximum efficiency. The system also lets operators monitor the real-time status of the system and alerts them to potential problems.

Compac 5 View Camera System & Dynamic Lane Balancing cross-flumes and load-belt speed control are Patent Pending Compac Innovations *Dependent on produce sorted and machine configuration

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

compac