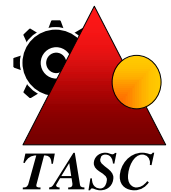


TASC Ellips Colour Sorting Units

For proven performance at a realistic price.

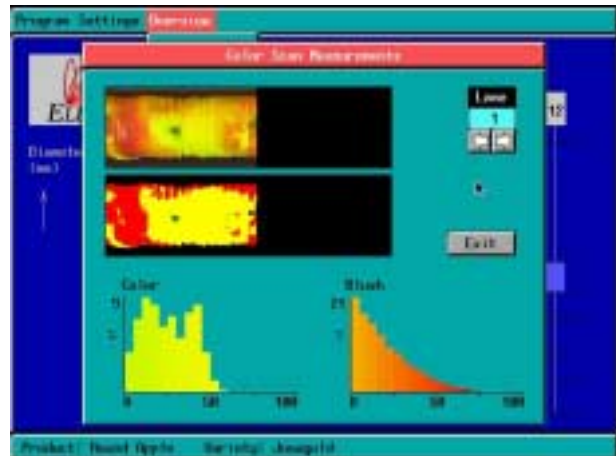


Ellips is a Dutch company active in industrial process automation and has specialized in electronic systems for sizers. The electronic computer systems are specially designed for easy integration with existing fruit sizers in which the unit is most commonly mounted on a section of the singulator.

Computers, video cameras and electronic sensors are used in combination with dedicated software to track the rotating fruit as it passes under the cameras and takes slices to form a complete picture of the surface of the fruit.



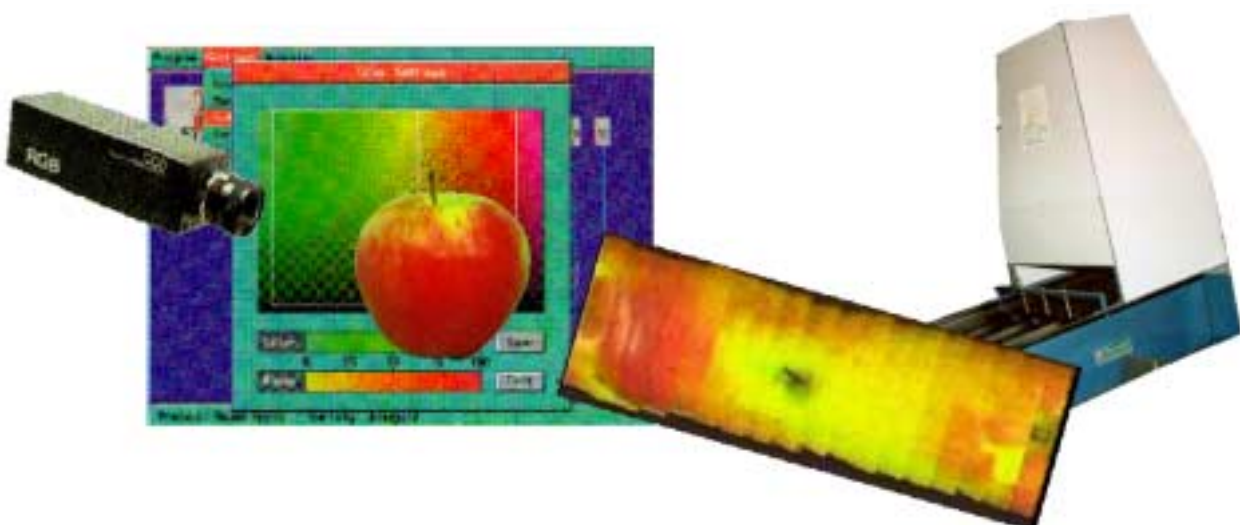
Screen of the sizer program sorting rules.



Screen-shot showing the fruit scan.

Highlights

- Low cost / High performance in a user friendly package.
- A PROVEN system. These units have operated in Europe since 1992, with at least 85 colour systems now in the field, including 11 that operated in New Zealand for the 1999 season.
- Feedback of measurements for easy adjustment of system parameters.
- Real-time operating system enabling adjustments to be made during the sorting process.
- Based on colour CCD cameras allowing detection of: basic/main colour and secondary colour (e.g., percentage of red on the total area of an apple). Up to 5 colour grades as standard.
- The fruit is rotated under the camera to show one complete revolution by taking into account its size.
- Maximum speed of 12 fruit / second (720 per minute/lane).



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