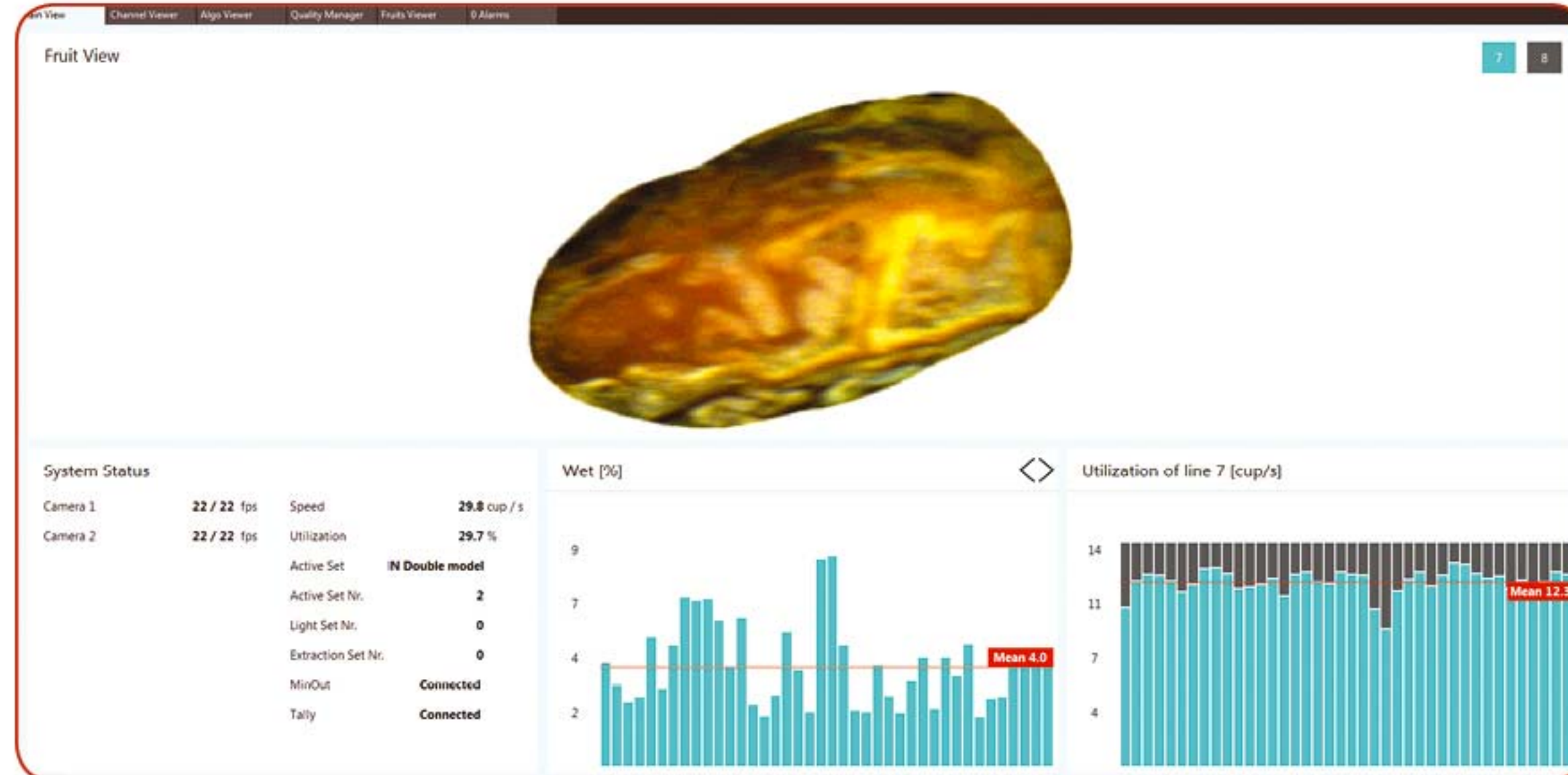
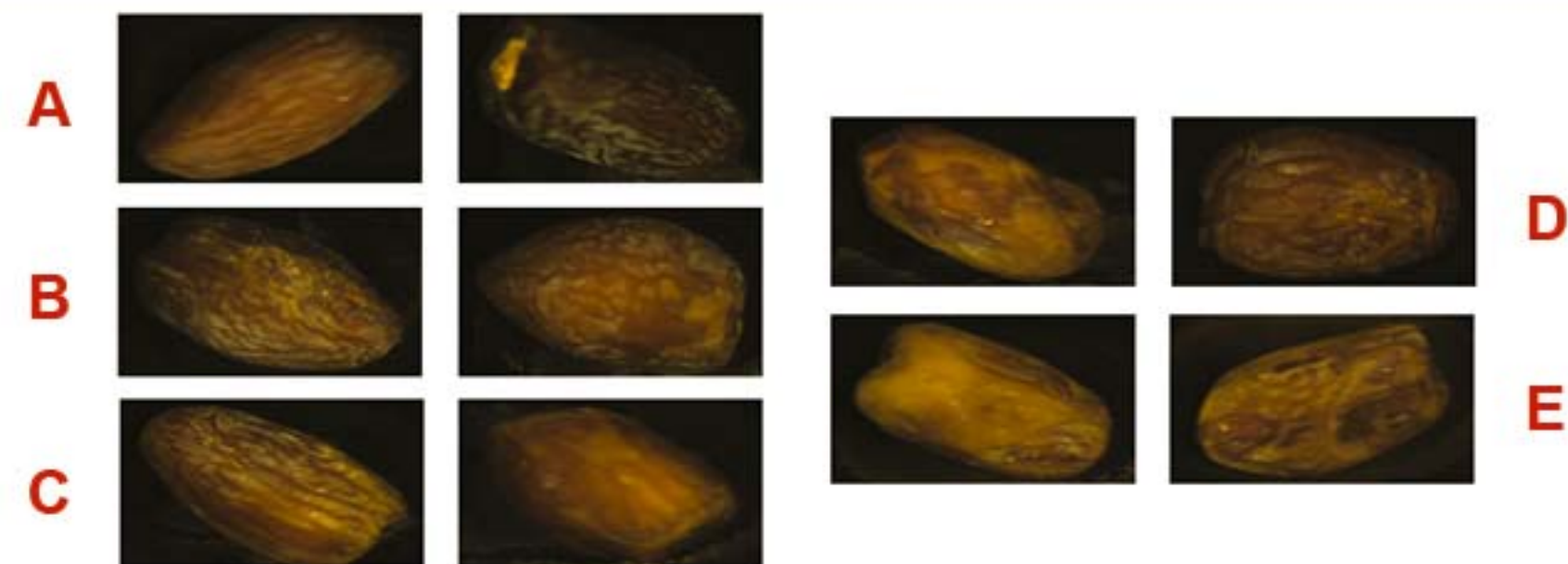


Electronic System

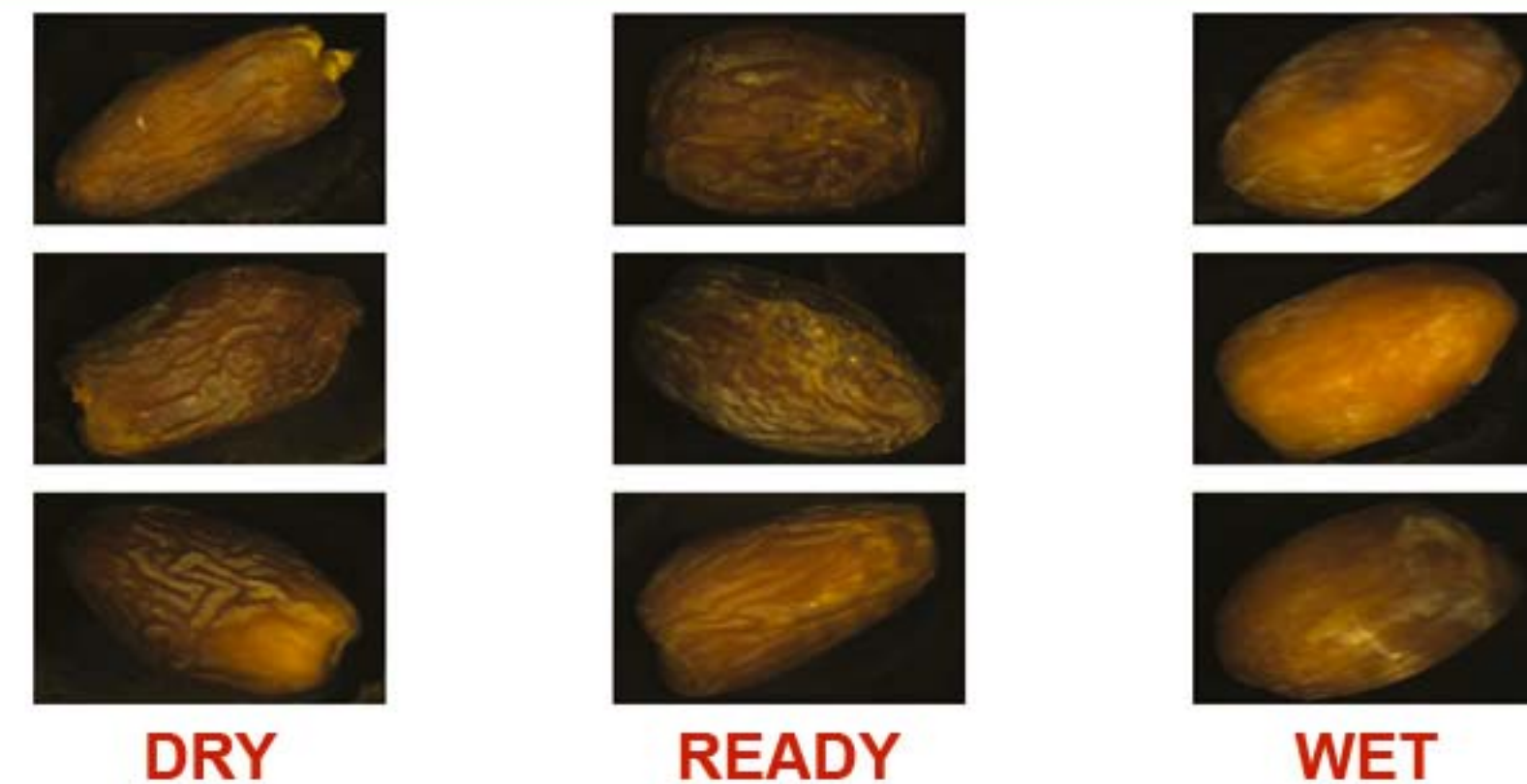
Our electronic systems are modular, provided with industrial PCs which control the lines and their functioning. Thanks to our systems we can offer to our customers the remote control of the machines. All the machines have a weight system and, most of all, a vision box to select the product by diameter (with the possibility to recognize if there are 2 little dates in the same trolley), length, width color and external defects such as yellow skin, loose skin and humidity. These parameters can work singularly or combined.



LOOSE SKIN:
detection on a single or multiple views and classification in up to 5 quality classes.



HUMIDITY:
detection on a single or multiple views and classification 3 status classes based on the appearance of the date.



DATES GRADING LINE



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futura
fruit technology equipment

DATES GRADING LINE

Seen the irregular shape and the loss of sugar of dates, our machines are totally made of AISI 304 stainless steel, in order to allow a proper water cleaning. The materials used in our machines are suitable for fruit contact, and we can provide food certification. We study proper solutions for all our customers' needs, from the warehouse spaces to the variety of the dates they have to work: Logika Lateral Discharge for capacities up to 1000 Kg/h and Logika Central Discharge up to 4000 kg/h.

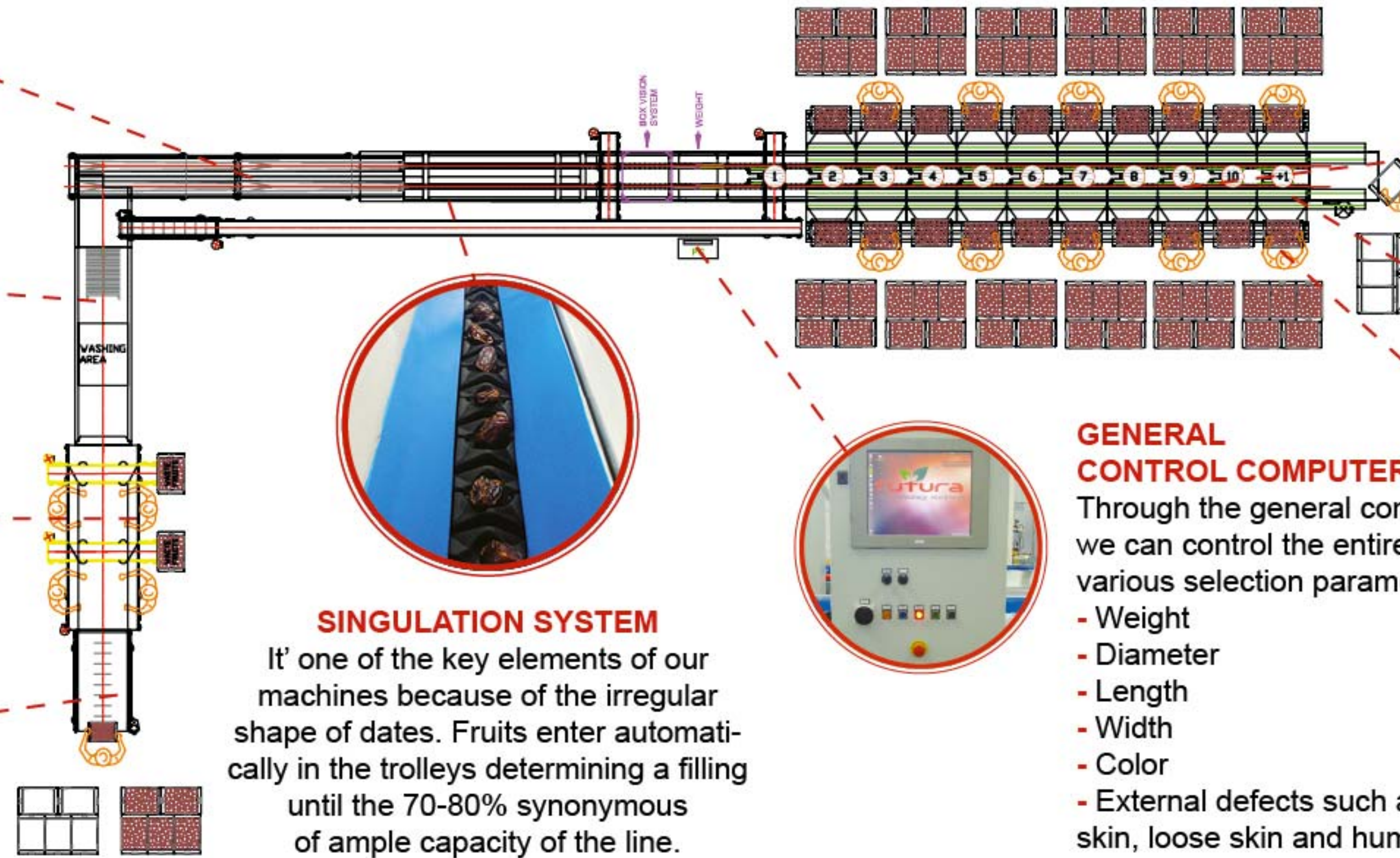
DATES GRADING LINE, CAPACITY UP TO 1 TON/H

TWO PRE-ALIGNING SYSTEMS
This line is composed of 2 pre-aligning systems because of the irregular shape of the product, in order to determinate an high filling of the line.

WASHING AND DRYING SYSTEM
Fruits arrive automatically in the washing and drying area.

PRE-SORTING SYSTEM
First manual sorting to eliminate the waste products and to detach dates.

MANUAL FEEDING
The product arrives from the land and it's overthrown in the working line where there's a first pre-sorting to eliminate the waste.



SINGULATION SYSTEM
It's one of the key elements of our machines because of the irregular shape of dates. Fruits enter automatically in the trolleys determining a filling until the 70-80% synonymous of ample capacity of the line.

GENERAL CONTROL COMPUTER
Through the general computer we can control the entire line in various selection parameters:

- Weight
- Diameter
- Length
- Width
- Color
- External defects such as yellow skin, loose skin and humidity

ELECTRONIC GRADER
It's a Lateral Discharge machine, 1 or 2 lines. Being modular, we can decide the line number according to the production capacity and also the exits number. It it's equipped with a trolley 76, molded for dates. The grader has a washing system for trolleys. Moreover, it has a recovery belt and, in the cameras area, you can see if there are two dates in the same trolley, and it's automatically discharged to the recovery area.



EMPTY BOXES FEEDING SYSTEM
Empty boxes feeding manual system for all the packaging stations.



DISCHARGE AND PACKAGING SYSTEM
According to the parameters set on the computer, fruits are divided by different sizes and discharged from the trolleys into the packaging tanks. They're equipped with a little door in order to fill directly boxes.

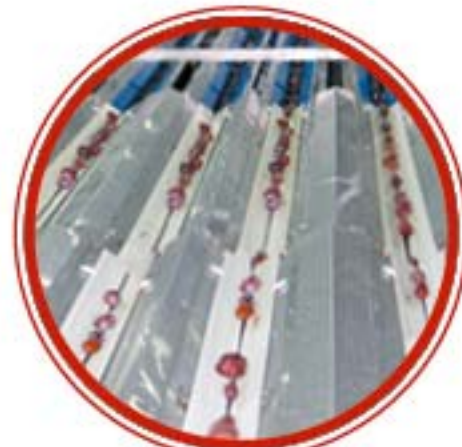


TWO PRE-ALIGNING SYSTEMS
This line is composed of 2 pre-aligning systems because of the irregular shape of the product, in order to determinate a total filling of the line.

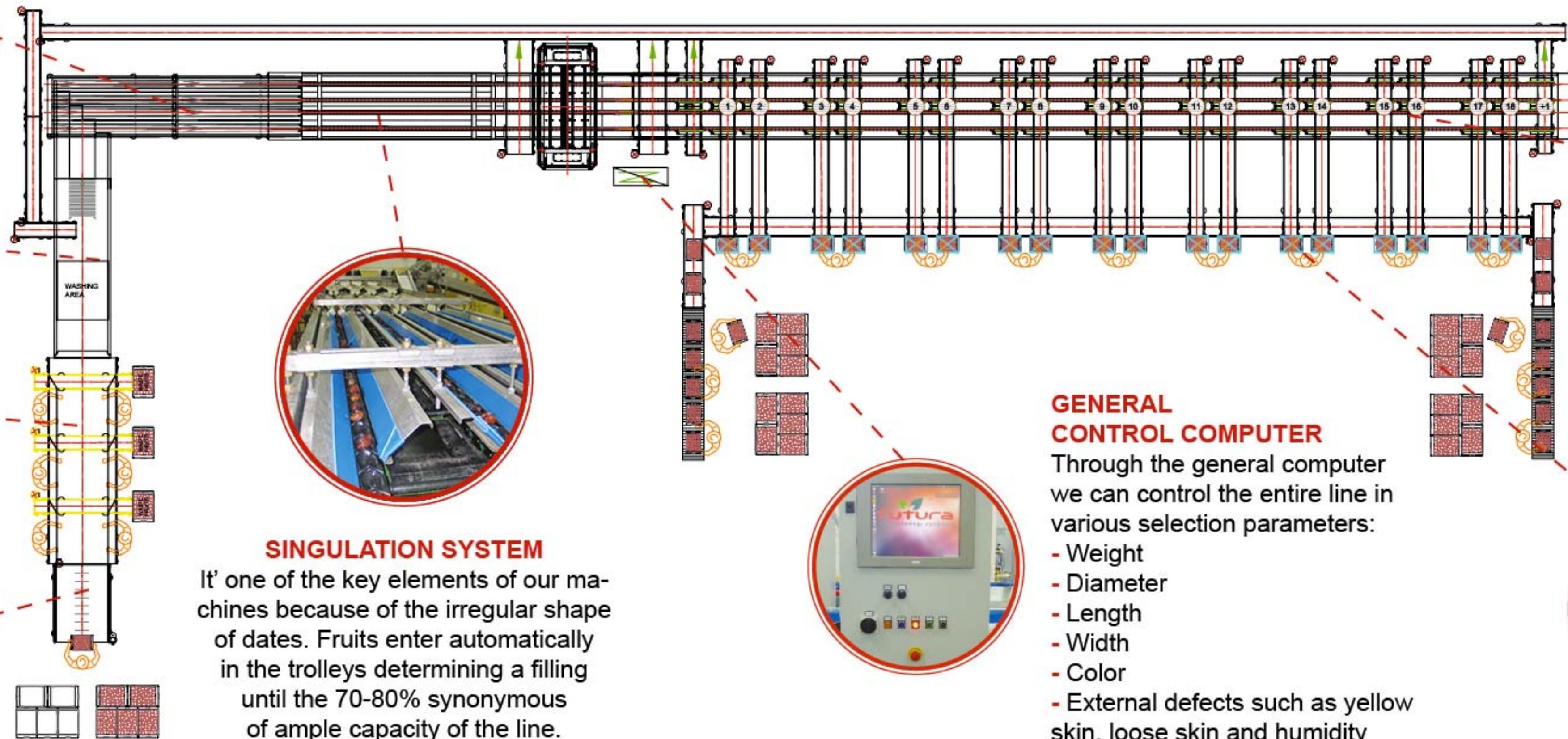
WASHING AND DRYING SYSTEM
Fruits arrive automatically in the washing and drying area.

PRE-SORTING SYSTEM
First manual sorting to eliminate the waste products and to detach dates.

MANUAL FEEDING
The product arrives from the land and it's overthrown in the working line where there's a first pre-sorting to eliminate the waste.



DATES GRADING LINE, CAPACITY UP TO 4 TON/H



SINGULATION SYSTEM
It's one of the key elements of our machines because of the irregular shape of dates. Fruits enter automatically in the trolleys determining a filling until the 70-80% synonymous of ample capacity of the line.

GENERAL CONTROL COMPUTER
Through the general computer we can control the entire line in various selection parameters:

- Weight
- Diameter
- Length
- Width
- Color
- External defects such as yellow skin, loose skin and humidity

ELECTRONIC GRADER
It's a Central Discharge machine, 2-4-6-8 lines. Being modular, we can decide the line number according to the production capacity and also the exits number. It it's equipped with a trolley 76, molded for dates. The grader has a washing system for trolleys. Moreover, it has a recovery belt and, in the cameras area, you can see if there are two dates in the same trolley, and it's automatically discharged to the recovery area. It's also equipped with the exit belts.



DISCHARGE AND PACKAGING SYSTEM
According to the parameters set on the computer, dates fall in a semi-automatic way in the boxes thanks to the exit belts. Products can be divided automatically from the computer also in the number of fruits or weight.

