



**QUALITY CONTROL OF
BISCUITS, CRACKERS AND
LEAVENED PRODUCTS**

VISION SYSTEM

System to be installed on the production line consisting of:

- cameras
- illuminators
- PC with Specialvideo software

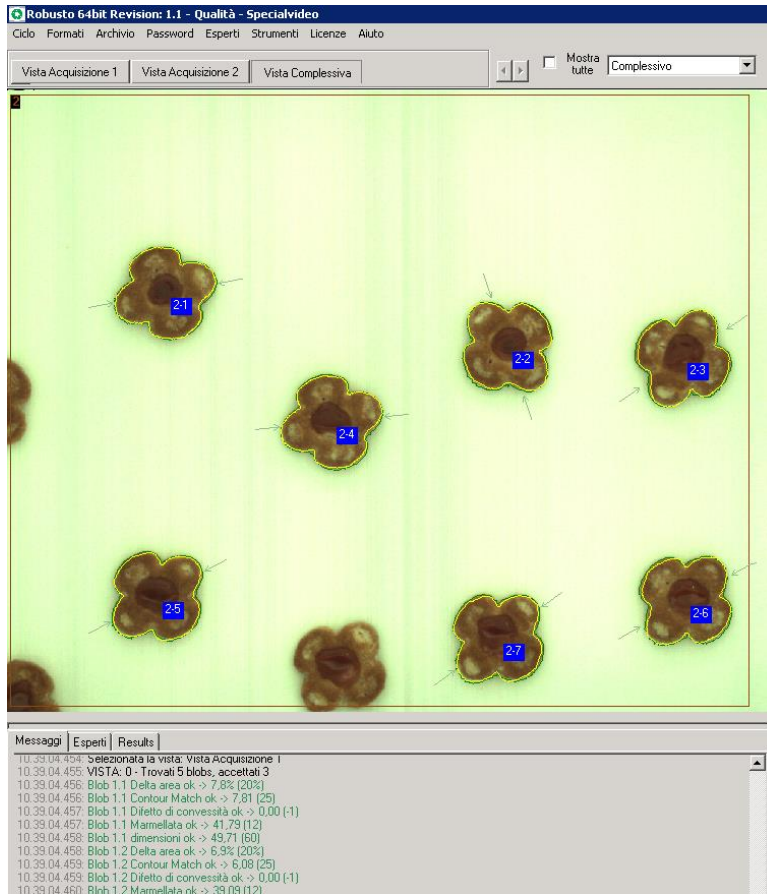
We select the optimal hardware for the customer's application.

BISCUITS QUALITY CONTROL

The system checks the integrity of the shape of the biscuits and checks their fillings such as jam, cream, chocolate by quantity and position.

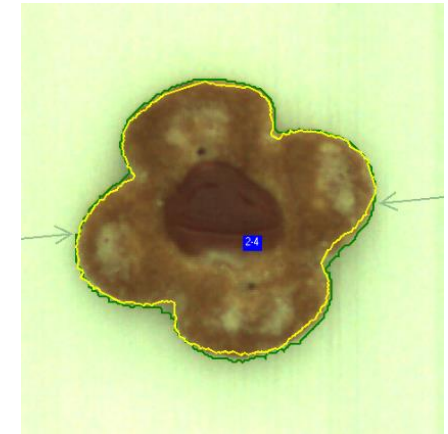
The system visually checks the cooking level. It detects the presence of any foreign bodies and pollutants that cause color anomalies.

VISION SYSTEM FOR THE QUALITY CONTROL OF BISCUITS



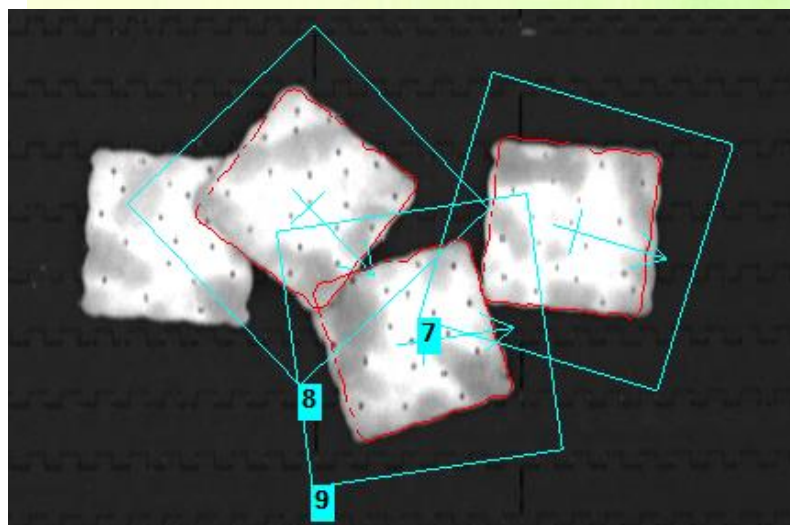
PERIMETERS AND FILLINGS

- ✓ Shape
- ✓ Filling quantity and position



COLOR ANALYSIS

- ✓ Foreign bodies
- ✓ Pollutants
- ✓ Non-compliant cooking

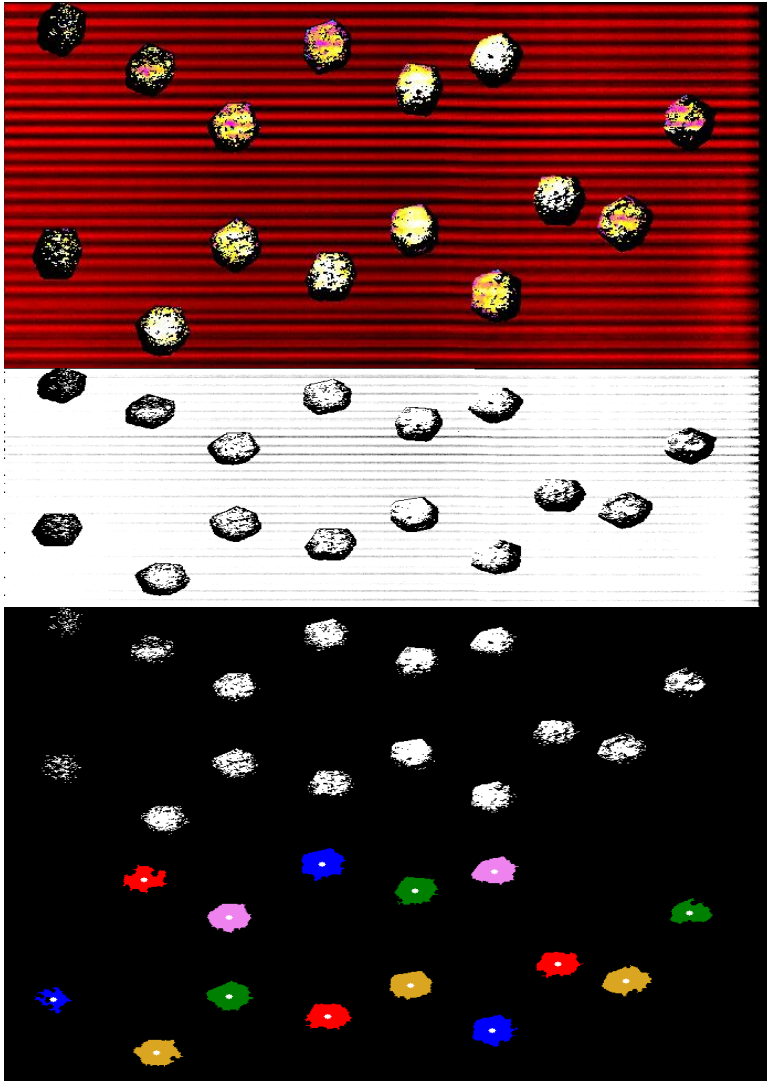


BISCUITS, CRACKERS, LEAVENED PRODUCTS?

We develop custom controls tailored to the customer.

The application shown for biscuits is suitable for other non-regular shaped products such as crackers, chocolates, breadsticks and baked goods in general.

For products as leavened products, in which height is a critical characteristic, we offer three-dimensional controls.

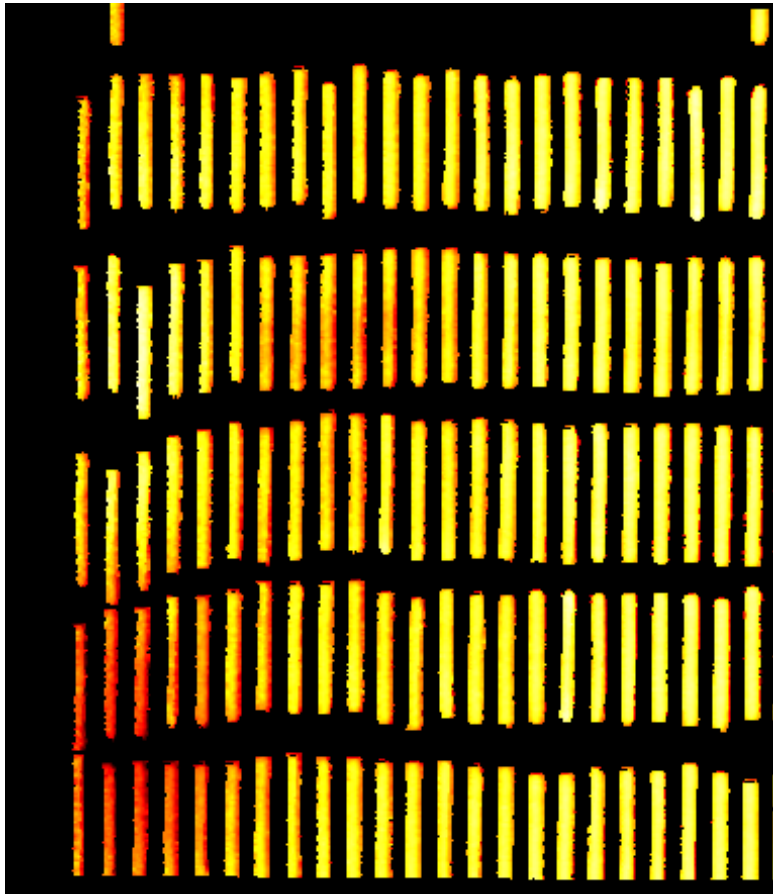


3D LASER SCANNING

The products moving on the conveyor belt are scanned by a laser line, from which **the system reconstructs the height map.**

Not only is it useful for checking the shape in height, but **sometimes it is the only solution to detect the perimeters: when the conveyor belt / grid is dirty,** it is not contrasted with the products, for example because it is sprinkled with chocolate, sugar powder or other covering.

3D QUALITY CHECKS



3D MAP

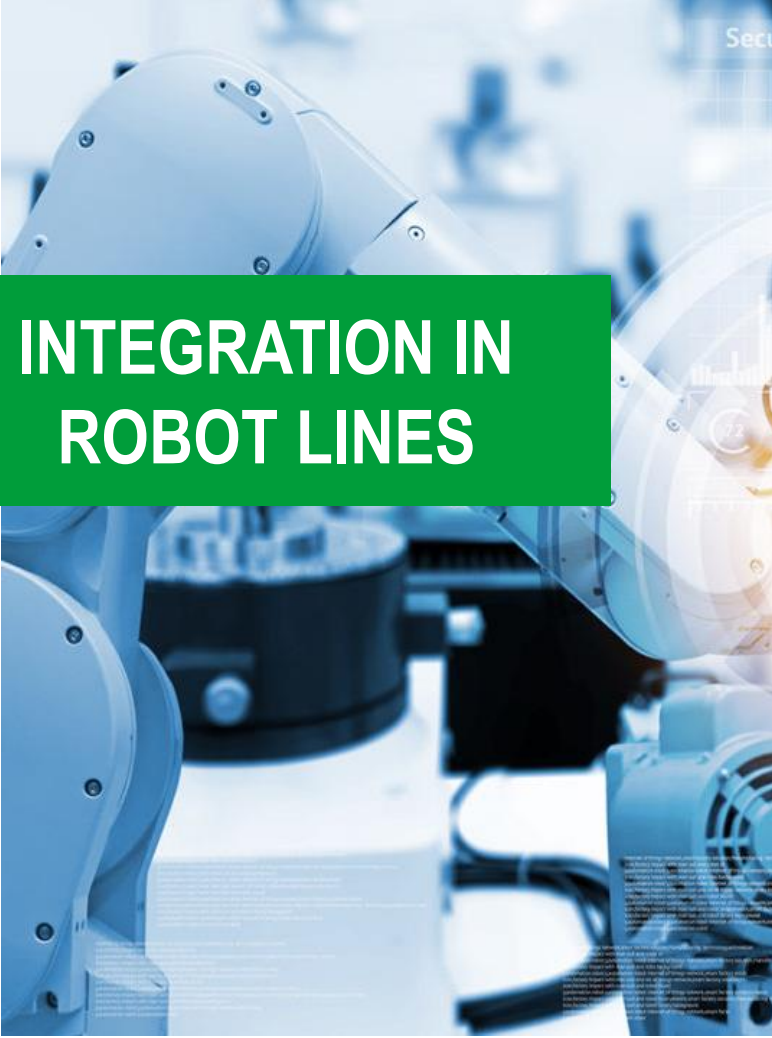
Reveals shape defects in the thickness of products

Photo: checking breadsticks.



LASER SCANNING

Detect products on any background, even dirty or reflective.



INTEGRATION IN ROBOT LINES

SIMULTANEOUS MANAGEMENT OF MANY ROBOTS

In addition to quality control, we offer robot guidance.

We have carried out integrations in lines with groups of robots, with products that travel in many rows, even if they are not aligned, at a rate of over 1000 pieces/min.

We can also manage a multi-belt line with a single vision system, even with belts at different speeds.

We are able to interface transparently with all brands of robots and/or PLCs with many field buses.



TRACKING OF DATA AND STATISTICS

The vision system is able to record counts and statistics useful in the context of Industry 4.0

We can integrate into the system into the plant network, providing artificial vision data useful for the customer's specific production tracking needs.

SERVICES



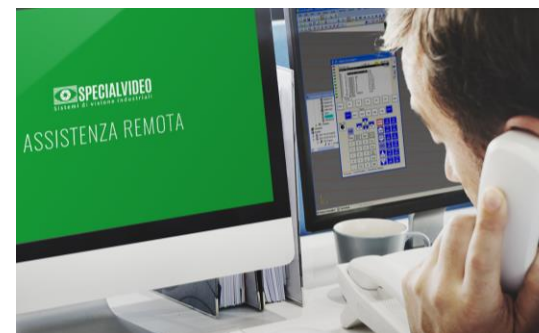
✓ Design

Choice and configuration of the hardware.
Vision software design and development.



✓ Test

Testing at Specialvideo.
Commissioning and testing at the customer.



✓ Technical support

Remote assistance included for the entire warranty period.
Field interventions with specialized technicians.

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