



# The best solution to optimize the whole production process

OPT detects non recoverable defects at the first stage of the production process, in order to increase the benefits deriving from the reduction of the production waste : this is the ambitious goal that Deltamax Automazione has achieved with OPT, the innovative scanner destined to revolutionize the flat glass processing.

The scanner works on unwashed plates, on both monolithic or laminated glasses, detecting structural defects like bubbles and inclusions before the cutting, changing the cutting plan in order to minimize the surface of wasted glass.

## OPT: SUSTAINABLE QUALITY

OPT is an Eco-friendly solution that reduce glass waste increasing energy saving of the whole production line.

### REDUCTION OF THE TOTAL SURFACE

of glass to reject, placing the detected defects into the areas of waste usually present in the cutting plan of all plates.

### ENERGY SAVING AND MACHINE WEAR REDUCTION

processing only glasses compliant with company quality standard.

### CYCLE TIME REDUCTION

through the reduction of online waste and the time necessary to their management.

**PATENT  
PENDING**

OPT system installed on Finglas plant in Trento – Italy.

# How OPT works

# 1

## PLATE INSPECTION

OPT acquires the glass image during its passage from the jumbo plate loader to the cutting table.

# 2

## DEFECTS DETECTION

OPT elaborates each image filtering the defects (bubble and inclusion) according to the set parameters.

# 3

## COMMUNICATION WITH THE CUTTING TABLE

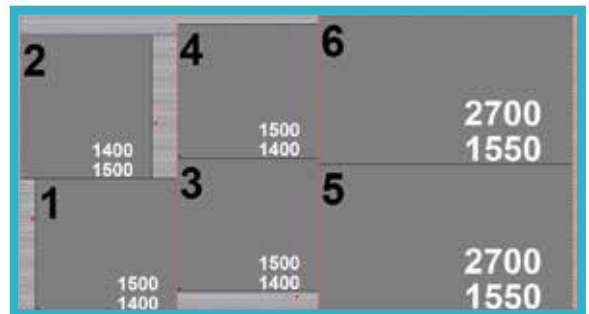
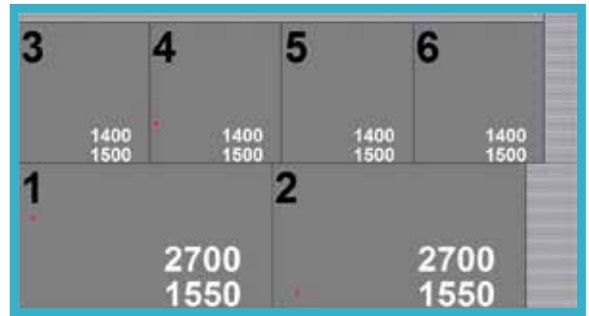
OPT sends to the cutting table software the map of the defects.

# 4

## WASTE MANAGEMENT

Depending on the automation degree of the solution it is possible to:

- > **Display the defects on the cutting plan**, in order to identify the plates that have to be rejected
- > **Optimize the cutting**, placing the defects inside the waste area thus obtaining the best and fast return of the investment.



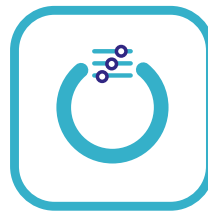
Example of optimization realized with Optima software.

## OPT advantages



### CUSTOMIZABLE

with parameter to set the minimum dimension of the not acceptable defects



### VERSATILE

could be used on each cutting process.



### FLEXIBLE

could be installed on existing lines without any modification.



### SIMPLE

for both installation  
- minimum line stop, and  
maintenance – component  
cleaning only.