



# SURFACE ANOMALY DETECTOR

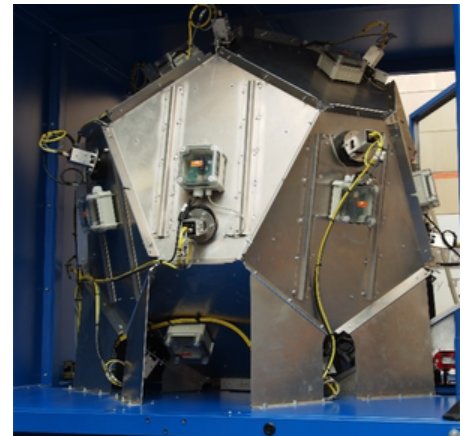
Analyzing 120 parts per minute, detecting 90% of defects, classifying parts by model, and rejecting unknown components

## SOLUTION DESCRIPTION

**A 3D camera-based inspection and AI algorithms that helps Manufacturers that need to ensure quality on their whole production to identify visual defects on the surface of manufactured goods, preventing the inclusion of faulty pieces in the final product and reducing waste and energy consumption**

By highlighting areas with defects, it prevents the inclusion of faulty pieces in the final product, reducing waste and energy consumption.

This method focuses on finding surface defects that may be difficult to detect using volumetric analysis. **AI will be utilized to train algorithms that can identify abnormal zones** in the object by analyzing images.



## MAIN BENEFITS

**With the 3D Camera, it's now possible to identify visual defects.**

- ▶ Live monitoring of all production parts
- ▶ Part classification, avoiding product specific solutions.
- ▶ Cost reduction: No down-time and no maintenance
- ▶ Millimetrical surface defects that human eye cannot detect



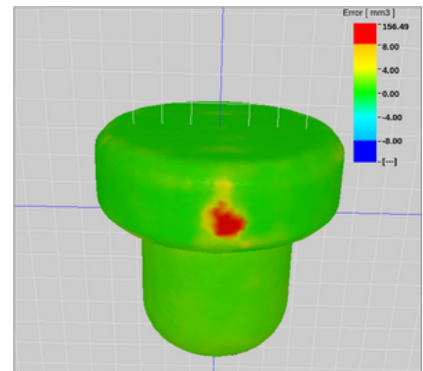
## SUCCESS STORIES

Bottle stoppers manufacturer with the next problems:

- Hundreds of references checked with human visual inspection
- Millimetrical surface defects not detected and sent to the clients

With the Surface Anomaly Detector solution we solve the previous problem achieving these objectives:

- Reference classification and algorithms trained for each stopper/product
- High precision surface defects detection avoiding customer product return



### PRODUCT OWNER



UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA



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