AIS
VISION SYSTEMS

AIS Vacuum

In-line vacuum inspection of jars, bottles and cans with metal or flexible lids. Measures each lid with a 3D laser profilometer and detects containers that have lost their vacuum from the shape of the lid.



- 3D laser profilometer: each lid's shape, not its height
- Unaffected by height, tilt or lateral offset
- Verdict, measurements and images for each container

Lid shape, container by container

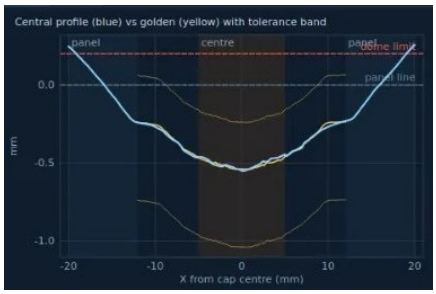
If the closure fails or air enters, the lid loses the deformation caused by the vacuum and its centre rises. The profilometer measures each lid on the conveyor and compares its shape with a learned reference of good lids: it also detects dents or a different lid.



Correct vacuum



Raised centre



Outside the reference

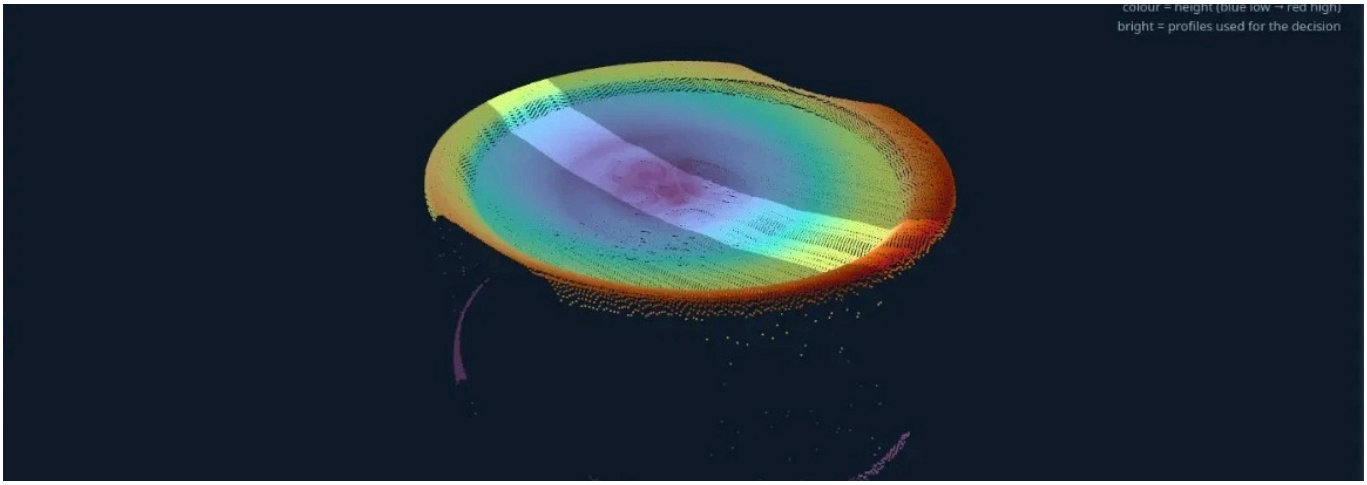


Printed batch

Reading or verification of the date and batch printed on the lid itself, without an additional camera.

3D view

Each lid is reconstructed in 3D from its profiles. Deformation is visible and compared with the learned reference of good lids.



3D view of the measured lid.

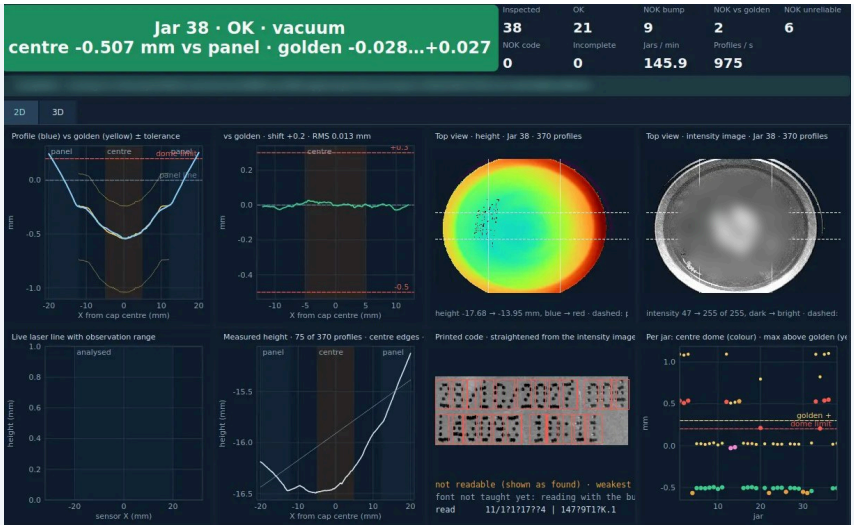
Measure, record and reanalyse each container

Equipment

Sensor	High-frequency 3D laser profilometer
Code	Reading without an additional camera
Formats	Saved as recipes
Insufficient data	Does not pass the container

Software

Vacuum threshold	Assisted learning
Views	2D, 3D and trend per container
Sessions	Recording and playback
Reanalysis	Containers reanalysed with different settings
Records	Results per container
Without a screen	Command-line mode



Lid profile and printed-code region in the same view.

Options

- OCR reading or OCV verification of date and batch
- Rejection for incorrect printed code
- Rejector integrated with the line PLC
- Conveyors and centring guides
- Rejected-product accumulation area

Send us samples

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