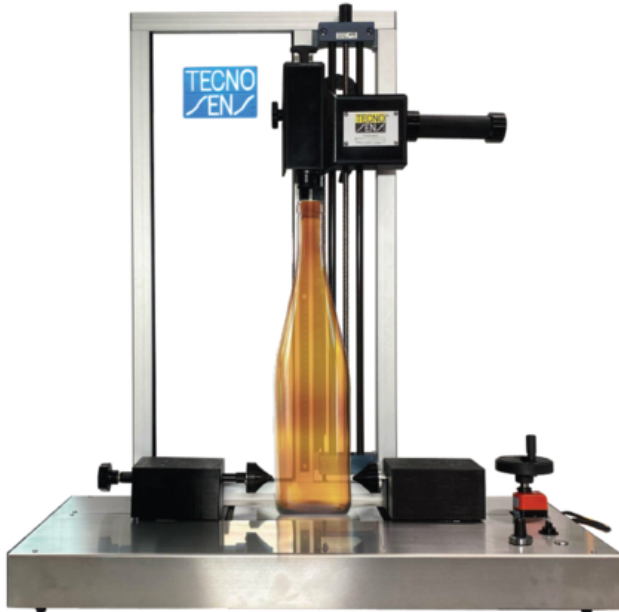


Strain View

Product code: Strain View

Manufacturer: Tecnosens SpA



StrainView is the solution developed by Tecnosens for the automatic monitoring of residual stresses in glass containers. The system enables precise and repeatable measurements both on the bottom and side surfaces, ensuring compliance with quality standards and preventing breakages, contamination, and non-conformities.

High-precision, non-contact quality control

Based on advanced optical technology, StrainView uses a vision system with a proprietary camera and control software to measure optical deformation (Optical Delay) and internal mechanical stress (in MPa or psi) with high accuracy, providing a visual representation with color scale images.

Key features

- Measurement of side and bottom stresses in glass containers
- Result visualization through colorimetric images
- Mold detection and identification
- Data export in CSV format and integration with LIMS systems
- Smart self-centering device for correct and quick sample positioning

- Suitable for containers with diameters up to 80 mm and heights up to 550 mm

Why choose StrainView

□ Breakage prevention

By monitoring residual stresses, structural failures during transport or filling can be avoided.

□ Guaranteed traceability

Thanks to automatic mold code reading, each container can be associated with its production cycle.

□ Simplified integration

StrainView seamlessly communicates with existing laboratory software, facilitating statistical analysis and quality documentation.

Technical data

Parameter	Value
Measurement technology	Non-contact optical, camera vision
Measurement range	0 - 147 nm
Resolution	0.1 nm
Accuracy	±1 nm
Measurement frequency	Up to 25 Hz
Field of view	96 x 216 mm
Supported sample size	Ø up to 80 mm, height up to 550 mm
Operating temperature	5 - 40 °C
Power supply	220 V

Typical applications

- Production of food & beverage containers
- Pharmaceutical and cosmetic sectors
- Hollow glass manufacturing
- Transparent or semi-transparent lens and plastic production



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- Silicon and silicon carbide wafer sector
 - In-line or laboratory quality control
 - Statistical analysis for production process optimization

Contact us for a demo

StrainView is designed to meet the needs of those seeking a reliable, precise, and easily integrable system for hollow glass quality control processes. Contact us for more information or to schedule a demo at your facility.

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