NEW ADDITION: BOW SENSOR

Bowed Glass

A Hidden Risk and Viprotron's Smart Solution: For Horizontal and Vertical Production

viprotron

No.1 in Glass Inspection

When One Pane Stops the Line

Bowed glass may not always be considered a major defect, yet its impact can be significant. Curvature can jam sorters, cause breakage, and bring entire production lines to a halt. The result: material waste, machine downtime, and costly delivery delays.

Productivity, Safety and Quality at Stake

Bowed glass is more than a quality issue. It's a real business risk.
A single crash triggers a chain reaction:

- **Production loss:** Maintenance and restart cost valuable hours
- **Breakage in sorting:** excessive bow causes jams and line stops
- **Processing delays:** warped panes slow down production flow
- **Rejection before IG / lamination:** out-of-tolerance glass cannot be processed further
- **Quality loss:** undetected bow increases rejects and inconsistency

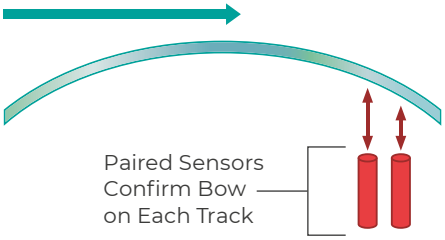
The Viprotron Bow Sensor – After the Furnace or During Processing

The solution: inline bow measurement at full production speed – up to 60 m/min. Bowed sheets are identified before they cause downtime.

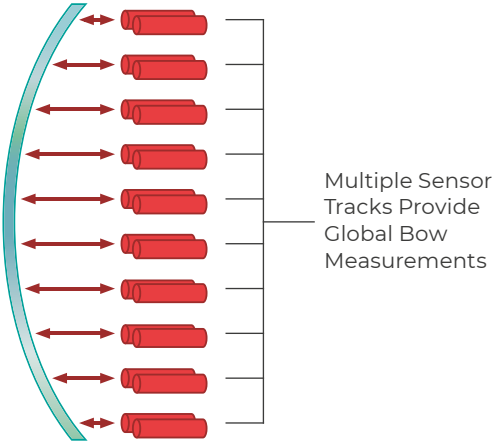
- **Measurement range:** up to 100 mm bow
- **Precision:** ±0.2 mm length / ±0.6 mm height
- **Glassdimensions:** 300 – 3300 mm
- **Integration:** horizontal and vertical
- **No line stops:** continuous flow, no gaps required
- **Add-on option:** can be integrated into all existing Viprotron scanners
- **Standalone version:** delivered with an ECO Scanner for data visualization and defect display in the software

Accurate, Real-Time Results through Dual Measurement

Measurement in Transport Direction



Measurement Perpendicular to Transport



Turning Risk Into Stability

The Bow Sensor prevents crashes, ensures stable downstream glass processing, and secures consistent throughput. The benefits are clear:

- Higher output through less downtime
- Safer downstream processes in lamination, IG, and more
- More reliability through stable processes

Part of Viprotron's Complete Glass Inspection Range

Bowed glass is just one of many quality challenges in glass production. With solutions like True Edge™ (edge inspection) and Temper Scanner 5D (distortion, anisotropy, haze, coating, and glass defects), Viprotron ensures full-spectrum tempering quality control. The Bow Sensor provides the final major inspection requirement for tempered glass and integrates seamlessly into existing systems.

Your Partner for Reliable Production

Viprotron combines German engineering with global service and deep industry expertise. The Bow Sensor transforms a hidden danger into a controlled parameter. Turning unstable processes into a true competitive advantage.

What Can We Do for You?

Take the opportunity to start a conversation with us.

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