

Extending the Limits in Glass Quality Processing

# Next Generation Float Glass Inspection

Reliable. Secure. Efficient.



Driven by Competence.  
Powered by Innovation.

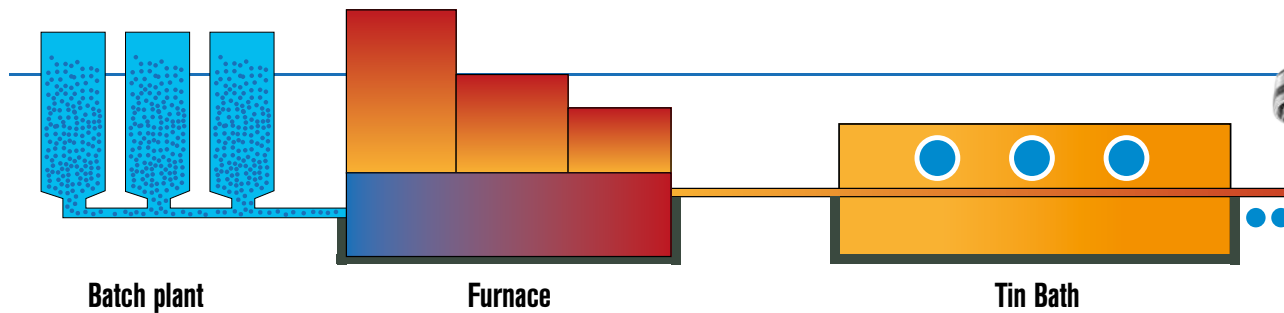
**ISRA**  
VISION

# Ultimate Perfection for High-Performance Glass

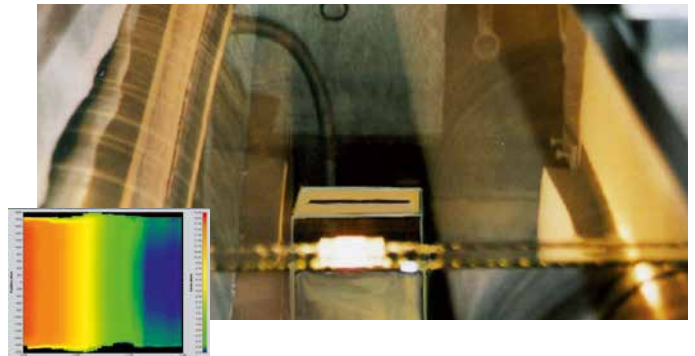
## Guaranteed Flawless Glass

**Perfect glass requires perfect inspection** - only a permanent monitoring of the process in the float glass area ensures desired quality and productivity. To ensure this, a highly innovative product portfolio of optical inspection system is available for the entire range of flat glass inspection. It helps significantly in optimizing the production process and increasing quality.

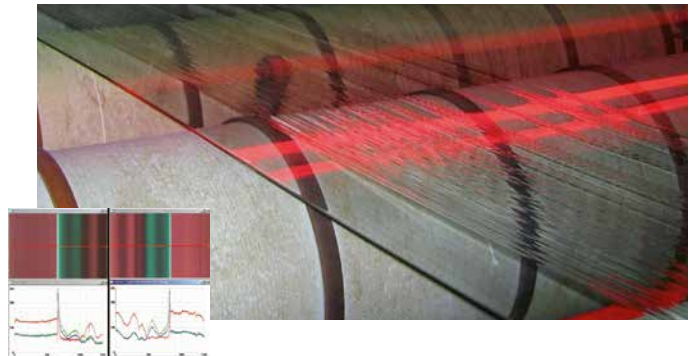
**The systems** are placed in operation at every step of the production chain, not only to inspect visual defects and for quality control purposes, but also as a means to optimize the processes themselves. They offer far more than simply inspection functions.



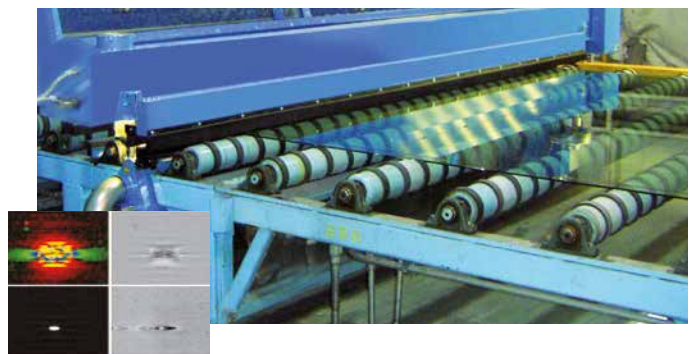
**FLOATSCAN-Hotgauge** stands for non-contacting, high-accuracy glass thickness measurement in the flow direction at the earliest possible process stage: right after the floatbath or immediately upstream of the annealing lehr. Because of its outstanding reliability, accuracy and performance, the system is a major contributor to increased production output.



**FLOATSCAN-Stress** enables optimised operation of the cooling lehr. Stress is measured in-line using a sensor that consists of a transmitter, located below the glass ribbon, and a receiver, located above the glass. The sensor uses the differences in polarization of circular polarized light.



**FLOATSCAN 5DXIN** defines the standard for the next generation of float glass inspection. The system combines five optical channels in one sensor. The advantage: only one system to solve all existing float glass inspection needs. By employing the inspection system's tools for process monitoring and yield optimization the highest productivity and cost-efficiency are assured. In this way, not only are the defects detected, but also it is pinpointed where and why the defects occurred.



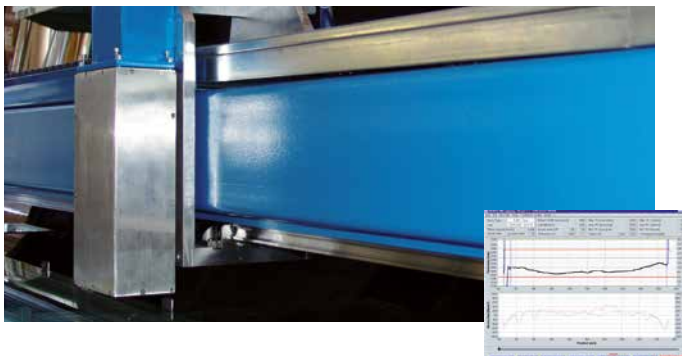
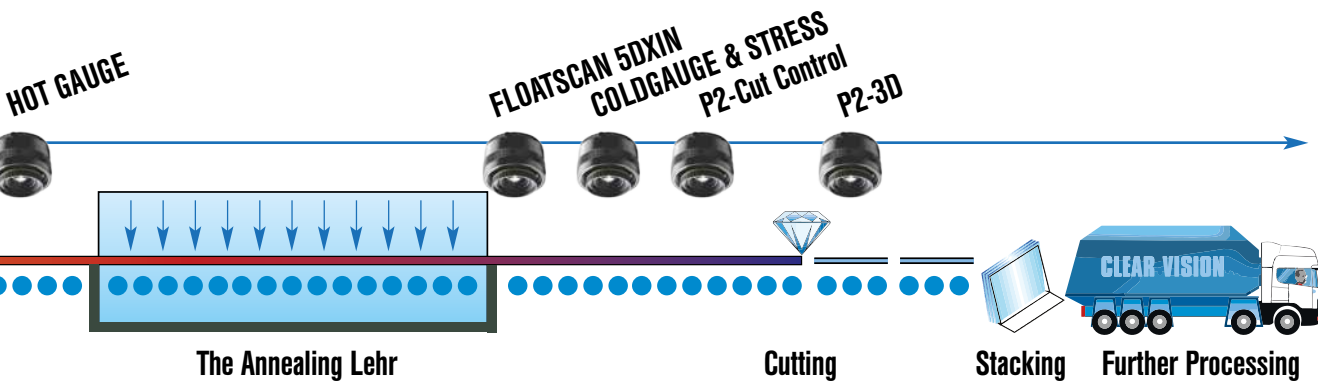
# Performance Inspection of Float Glass

## Inspection with Undistorted Clarity

The systems make all quality and production-related information available across the site. Optionally available statistical analyses make continuous process improvement possible.

The return on investment is reached in the shortest times. This is due to fast installation and commissioning and shortest ramp-up times.

**Get YOUR key to the future – Ask for the details!**



**FLOATSCAN-Coldgauge** stands for reliable and accurate in-line thickness, width, and stress measurements. The gauging module's performance allows for precise thickness control, resulting in reduced profile losses when production is close to lower tolerance limits as well as minimized edge losses by accurate ribbon-width measurement. The stress module enables for optimized operation of the cooling lehr, providing additional information on the production process.



**P2-Cut Control** is a fully automated optical in-line system for continuous inspection of panels: right after cutting. It provides 100% real-time inspection of edge and shape at one time. Every single defective glass panel will be detected and can be rejected immediately. Only qualified panels will reach delivery. Fewer returns and complaints will save time.



**P2-3D** based on the patented stereo-defectometry technology - the flatness and shape of glass sheets can be measured reliably down to the m-range within less than 10 seconds. The measurement result is presented as full surface height map and additionally as a vertical and horizontal curvature map.

# Innovations for Automated Optical Inspection

**We are the innovators in optical inspection.  
Best practice. Best system. Best service.**

For over three decades, ISRA VISION has become a leading manufacturer of highly accurate automated optical quality inspection systems.

More than 10,000 successful applications reference our sustainable experience in the field of machine vision products – and our ability to innovate.

Today our products are operating worldwide in such industries as glass, plastics, foils, print and automation. It is our goal to set system standards for total process control in these industries.

Customers choose ISRA for the ability to develop products consistently to their requirements. More than 900 employees at 25 locations worldwide are working to contribute to your success.

**Your global partner for surface inspection.**

We offer our experience and a highly qualified team of experts to design and implement solutions for advanced applications.

We assure that our mission continues beyond our shipping dock. Just challenge our Customer Support and Service Center (CSSC).

We guarantee excellence to our customers – from consulting to service, from tailored solutions to worldwide support. We can make your business more competitive.

**Challenge Us.  
Inspect to Control – with ISRA VISION**



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