



**Case Study**  秦皇岛玻璃工业研究设计院  
Qinhuangdao Glass Industry Research & Design Institute

## How the Qinhuangdao Industry Research & Design Institute ensures top quality of raw glass with automated real-time thickness and stress measurement

### Customer & Challenge

Qinhuangdao Industry Research & Design Institute, upgrades its quality assurance processes with ISRA VISION's system for automated measurements.

Float glass producers face some important challenges in their production lines. The optimal thickness and correct stress of the material are crucial factors for the glass quality. Any damage or breakage during packaging, transport, handling, or use needs to be avoided in order to increase safety and minimize economic losses.

On the other hand, glass that is too thick means an unnecessary waste of resources and additional costs.

Considering these factors, producers want to produce as close as possible to the lower permitted limit of thickness. Using a very accurate measuring device, you can get very close to this limit. As a consequence, automated thickness measurement presents an important advantage that significantly improves product quality and cost control.



### The Solution

#### Floatscan-Coldgauge & Stress

- Accurate thickness measurement tolerant to curvature, tilting, wedge form-based on patented technology
- Measurement capability down to 9% light transmittance
- Large glass thickness measurement range (standard from 0.8 to 20 mm)
- Provides immediate feedback about the glass ribbon's thickness and stress with its moveable sensor
- Thickness & Stress measurement In-line
- Full cross-section thickness profile
- Automated tonnage monitoring

# FLOATSCAN-Coldgauge & Stress



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“We see clear positive effects of the FLOATSCAN-system, objectively monitored with statistics based on the system”

Ms. Wang Jian, Vice Director

Qinhuangdao Industry Research & Design Institute

## Customer Benefits



### Various departments benefit from ISRA's Coldgauge & Stress system

Installed at the cold end, FLOATSCAN Coldgauge & Stress provides immediate feedback to the hot end process allowing for prompt adjustments when quality issues occur. While the quality department is the primary user of the system, the production department – responsible for all the other processes such as melting, molding, and the annealing section – also benefits from it.



### Reduced customer complaints

In the Qinhuangdao Institute's case, the combination of the FLOATSCAN-system with optimized cutting significantly increased the yield while the number of customer complaints significantly decreased.



### Constant control over production criteria and customer's needs

ISRA's FLOATSCAN Coldgauge & Stress system – combined with a product extension for optimized cutting of glass sheets – provides constant control over these criteria and supports the manufacturer in meeting its customer's needs. The system has a direct impact on the ability to produce to exact customer specifications and to fulfill higher-quality orders while avoiding scrap. As a benefit, the yield is optimized in the shortest time and higher customer satisfaction can also be successfully achieved.



### User-friendly interface with selectable display options

One key advantage is the user-friendly Interface, which is intuitive and visualizes processes clearly with individually selectable display options. The gathered data does not only provide evidence of the system's effectiveness, but they also enable a comprehensive analysis of the line output and document the produced quality as assurance for the customer. Therefore, it allows for continuous process optimization and root cause analysis.

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