**Frequently Asked Questions about the Glass Inspector**

## 1. What exactly is the Glass Inspector system and how does it work?

The Glass Inspector is an automated system that uses high-resolution cameras and artificial intelligence to detect defects in glass parts during the production process. It identifies imperfections such as bubbles, scratches, inclusions, and stains in low-e glass, ensuring that each , dirt and defects on the layer of the piece meets the required quality standards. The system integrates easily into existing production lines without disrupting workflow.

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## 2. Is this a new system in the glass industry?

Automation and optical inspection have been applied in various sectors for years, but their specific adaptation to glass is a recent development.
Our system incorporates the latest computer vision and machine learning technology to provide more accurate and reliable detection than traditional manual inspections.

Glass Inspector was founded in 2010.

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## 3. How much does a typical system installation cost?

The cost varies depending on the size of the production line and the desired features. After an initial evaluation, we offer a customized proposal that optimizes the investment and guarantees a rapid return on investment by reducing rejected glass and increasing productivity.

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## 4. Will the system lead to job losses in the glass industry?

No. The goal of the Glass Inspector is not to replace staff, but to support them. Automation frees operators from repetitive tasks and allows them to focus on higher-value functions, such as quality control, data management, and preventive maintenance. In practice, the system improves the efficiency of the human team.

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**5. What are the benefits of installing it in my production line?**
**glass?**

- **Immediate detection of defects with high precision.**
- **Significant reduction in waste and returns.**
- **Greater consistency in the quality of the final product.**
- **Digital registration and complete traceability of production.**
- **Optimization of inspection time and workflow.**
- **Improved quality image for clients and certifiers.**

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**6. Is it dangerous or complicated to handle?**

**The system is designed for safe use in industrial environments. It poses no risks to operators and complies with all applicable safety regulations. Its intuitive graphical interface allows for easy control of the inspection process. Furthermore, the team receives training to ensure proper and hassle-free use.**

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**7. Does it require extensive training or experience to operate it?**

**It is not necessary to have advanced knowledge in computer science or**
**Automation. During installation, our team provides comprehensive training to plant personnel. In just a few hours, operators learn how to configure parameters, interpret results, and perform**
**basic maintenance.**

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**8. Who designs and builds the system?**

**The Glass Inspector is a proprietary development by our technical team, using high-quality industrial components. Each system is tailored to each client's specific needs, whether in terms of glass size, line speed, or the type of defects to be inspected. All equipment comes with a warranty, technical documentation, and direct support from the company.**

**manufacturer.**

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**9. How does it integrate with the glassmaker's existing production data?**

The system can be easily connected to management software (ERP, MES) and production databases. It automatically records detected defects, generates reports, and allows for quality statistics analysis, facilitating decision-making and real-time efficiency monitoring.

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**10. How much maintenance does the system require and how long do its components last?**

The Glass Inspector is designed for minimal maintenance. Only periodic camera cleaning and calibration verification are recommended. The optical and electronic components have a long service life and are protected against dust, vibration, and moisture. We also offer preventive maintenance contracts and remote support.

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**11. Can the system detect glass that is already broken, cracked or fractured? fine?**

Yes. Thanks to the combination of high-resolution cameras and detection algorithms, the system can identify microcracks, fractures, and other surface or structural defects that might otherwise be invisible to the human eye. This allows defective parts to be removed before shipping or further processing.

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**12. Is the system prepared for the conditions of a glass factory (dust, glass, vibrations, format changes)?**

Completely. The Glass Inspector components are protected with industrial housings and dust and particle filters. The structure is robust and vibration-resistant.

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**13. Can it be updated or expanded in the future?**

Yes. The modular design allows for the addition of new features or expansion of system capacity as plant needs evolve. Additional cameras, advanced analytics software, or integration with new production lines can be added without replacing the entire system.

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**14. What guarantees are offered with the installation?**

**The system includes a full factory warranty covering components, labor, and technical assistance. We also offer extended support packages, software updates, and remote or on-site technical service to ensure peak performance throughout the life of the equipment.**

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**15. What steps are involved in starting up the system?**

**The process takes place in several stages:**

1. **Preliminary study of the line and definition of requirements.**
2. **Manufacturing and customization of the system.**
3. **Installation and integration into the existing line.**
4. **Calibration and testing under real production conditions.**
5. **Staff training and final validation.**
   **From there, the system is ready to operate completely autonomously, with technical assistance available whenever necessary.**