Float Glass Inspection and Measurement for Highest Quality and Optimized Yields

The Number 1 in Glass Inspection

Integrated Solutions for Web Inspection | Glass | Solar | Customized | Handling Systems
YOUR ADVANTAGE - OUR TECHNOLOGY
Optimal production yield through supreme inspection capabilities:

Cameras
- Detects defects twice and ensures higher accuracy for low-contrast defects (Dual Line, 12-bit camera = 16 x higher resolution than conventional 8-bit cameras)

Illumination
- 10x more light than conventional systems through Dr. Schenk SLT technology
- Water cooling ensures failsafe operation at maximum LED brightness and all factory temperatures
- Highest detection performance for clear and tinted glass of extremely low transmission grade

MIDA
- Powerful and accurate defect detection with MIDA (Multiple Image Defect Analysis)

Scalable
- Ideal for typical applications with dedicated core channel or dedicated optical channel (Essential)
- Combining both systems for cutting-edge requirements (PRO)

Complete MIDA solution
Dr. Schenk’s MIDA (Multiple Image Defect Analysis) technology allows unique defect detection for the requirements of float glass production. During a single scan pass, multiple images are generated for comprehensive defect analysis. By switching between different camera channels and illuminations, multiple images of a defect can be taken, analysed and finally classified with a much higher grade of accuracy than systems with a single defect image can.
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GlassInspect Essential

The GlassInspect Essential package is optimally suited for the detection and classification of all relevant glass defects like for example bubbles, knots, reams and more. GlassInspect Essential offers the following features:

- High-resolution gray images for exact physical representation of defects
- Supreme inspection capabilities for glass transmission grades as low as 10%
- Optional Reflection channel for tin detection and for precise defect depth recognition (top, bottom and inside the glass)

Two Versions

One version of GlassInspect Essential offers a dedicated core channel as its main feature:

- Best measurement and analysis of size, contrast and shape of glass defects
- Innovative detection of ream knots

The second version of GlassInspect Essential offers a dedicated optical channel as its main feature:

- Exact measurement of mdpt values for reams and drawlines, as well as “Zebra-Test” and the projection method integrated in software
- Detection of distortions and refraction defects like reams and ream knots

GlassInspect PRO

GlassInspect PRO is the only solution for float glass inspection that offers the combined advanced detection of both Essential versions for an allround solution for all types of float glass.

With twice the number of high-speed and high-resolution cameras, combined with dedicated LED light sources with SLT technology performing at the highest light intensity available on the market, Dr. Schenk GlassInspect PRO offers an unreached and unrivaled quality level for automated optical inspection (AOI) systems.

Inspection and Handling Systems
Dr. Schenk GmbH, established in 1985, is an innovative high-tech company based near Munich, Germany. Dr. Schenk develops, produces and markets optical inspection and measurement solutions for automated quality assurance and production process monitoring. This includes high-quality, customizable handling solutions. Our products are a key success factor in the making and converting of many materials, e.g. plastics, textile materials, nonwovens, paper, metal, or glass, for a multitude of markets like display glass, automotive, packaging, medical, renewable energy, and many more.

Throughout the world more than 300 Dr. Schenk’ employees continue to set new standards for the inspection of surfaces. Over 12,000 m² of modern, cleanroom-capable production and testing facilities are available to research, development and production to apply cutting-edge optics and electronics to customer applications.

Dr. Schenk offers extensive from-lab-to-fab knowledge. Customers benefit from our expertise in the translation of lab applications to large scale productions. Our sophisticated handling solutions complete the one-stop-shopping experience.

The company’s objective is complete customer satisfaction. This is achieved through innovative and practical solutions that can be implemented into new and existing production lines. Local sales and service facilities around the world ensure fast support, technical service, training and consulting at any phase of a project.

From modular standard units to highly customized systems – Dr. Schenk’s solutions have precision in focus!

For more information and contact details:
www.drschenk.com