



PRECISION IN FOCUS

*Innovative Inspection
and Measurement Solutions*



CUSTOMER SATISFACTION IS OUR TOP PRIORITY

Dr. Schenk GmbH, established in 1985, is a global innovative high-tech company based in Munich, Germany.

For the third decade now, the range of products and services offered by Dr. Schenk comprises comprehensive solutions for automated quality assurance and production process monitoring for the solar, flat glass, film and foil, converting, optical media and semiconductor industries.

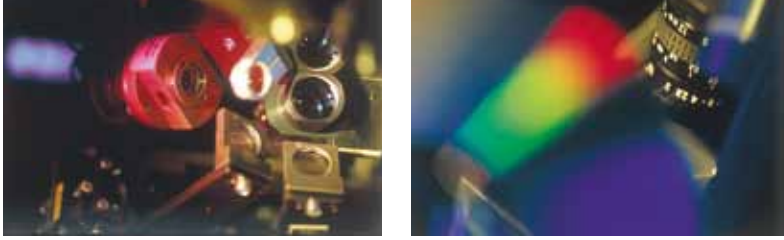
In these areas Dr. Schenk continues to set new standards for the inspection of surfaces through the utilization of the latest technical advances in optics and electronics.

The Objective: Total Customer Satisfaction.

Primary objective of Dr. Schenk is to achieve complete satisfaction of its customers on a long-term basis.

This vision is realized by a perfect synergy between innovative solutions and practical ideas. Global sales and service facilities ensure local support, technical service, training and consulting at any phase of a project.





All of the developments made by Dr. Schenk are based on two complementary fundamental principles: quality control and process monitoring.

- Quality control provides reliable data to facilitate decisions for an optimal combination of production efficiency and material quality.
- Process monitoring improves the stability of corresponding procedures on the basis of measurement values, without putting the quality standard at risk. In that way, manufacturing processes can be checked and adjusted towards the goal of an absolutely perfect product.

The core performance features of Dr. Schenk solutions are:

- Detecting surface defects and mapping localized imperfections of materials
- Measuring the mechanical, electrical and optical characteristics of materials
- Rapid and precise analysis of measurement values

In summary, Dr. Schenk inspection solutions are ideally suited for 100% surface quality assurance of materials moving at high speeds at modern, highly efficient manufacturing lines.

PRECISION AS A PERSPECTIVE

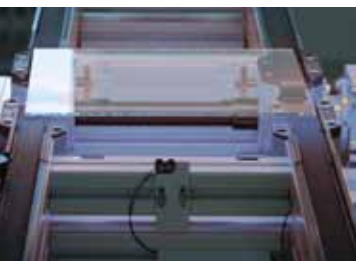
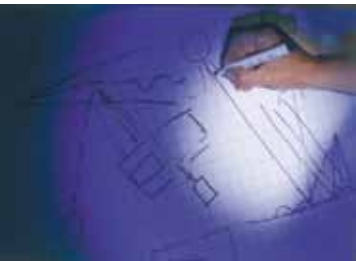


Since its founding in 1985, Dr. Schenk has made a name for itself in the highly competitive market for quality control and process monitoring systems due to its integrity, reliability and innovative concepts.

Solar Division

The solar products from Dr. Schenk are real all-round talents for thin film and roll-to-roll solar module manufacturers and equipment suppliers. These turnkey metrology systems offer reliable quality control for the entire running production process. In-line inspection and measurement systems can be integrated after each production step and detect material and processing defects on:

- Incoming Bare Glass
- Coated Glass, e.g. TCO, Molybdenum
- Layer Deposition
- Structuring / Laser Scribing
- Chemical Steps
- Edge Deletion
- Lamination and Contacting
- Back / Cover Glass
- Finished Modules





SOLUTIONS AS AN OUTLOOK



Web Division

In the area of automated web inspection, Dr. Schenk has acquired far-reaching expertise, both in the manufacturing process and in identifying the possible sources of defects.

This allows Dr. Schenk to develop classification methods which are capable of pinpointing surface irregularities with absolute precision.

Contributing to this performance is the extreme reliability of the Dr. Schenk web inspection and monitoring systems for sheets and rolls of

- Film, Foil and Paper
- Converted Web Material
- Non-Wovens
- Metal, as e.g. Aluminum, Copper ...

Glass Division

The high-performance systems from Dr. Schenk's glass inspection product line are applicable both for glass manufacturing processes, as well as for the various subsequent processing steps involved in the production of

- Architectural Glass
- Automotive Glass
- Display Glass
- Solar Glass
- Specialty Glass

Thanks to a modular design each glass inspection system is adapted to the individual needs of the inspected glass type while standard components keep the investment low.



Optical Media Division

Dr. Schenk is a worldwide leader in the design, production, installation and service of quality control and process monitoring scanners for testing and inspection of optical discs.

Throughout the manufacturing process of prerecorded, recordable, and rewritable media, Dr. Schenk scanners and measurement systems inspect the mechanical and optical characteristics of masters and stampers as well as media on replication lines.

Known as the inspection pioneer for the optical media industry, Dr. Schenk continues to set the highest standards for the inspection of new HD formats. Blu-ray disc replicators and manufacturers rely on Dr. Schenk inspection systems that have "precision in focus".

SUCCESS AS A POINT OF VIEW



NEW DIRECTIONS IN SURFACE INSPECTION

Over many years, Dr. Schenk has built productive, mutually beneficial relationships with its customers who have put their trust in the company's performance and competence.

Dr. Schenk has extraordinary capabilities in front end optical design, because in surface scanning everything starts with the best possible image. Striking out in new directions, Dr. Schenk transfers its industry proven technologies to new emerging high-tech applications.



Proactive Research & Development

At Dr. Schenk, innovation continues to meet the industries' needs. Engineers of the research and development team work on special, user-related inspection solutions for manufacturing processes that pave the way towards the future. In doing so, the practicability of such highly customized and often unique solutions remains the focus of all R&D activities. Originally developed for an exceptional inspection task many of the emerging innovations are finally implemented in Dr. Schenk's standard systems and become available to all customers.

The horizontal organizational structure of the Dr. Schenk group promotes innovative solutions while the investment in research and development is reflected in technological success and creativity. At Dr. Schenk, precision is always in focus.

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WE HAVE THE WORLD IN OUR SIGHTS

