



# PRECISION IN FOCUS

*Innovative Inspection  
and Measurement Solutions*





# CUSTOMER SATISFACTION IS OUR TOP PRIORITY

### *The Objective: Customer Satisfaction*

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

### *The Mission: Superb After Sales Support - Worldwide*

Dr. Schenk inspection solutions are installed all over the world. Experienced service and application engineers guarantee excellent application support for fast trouble-shooting and problem solving. Technical support from the company headquarters is available to every location around the world.

### *The Expertise: Technological Leadership*

Dr. Schenk continually sets new standards in the area of surface inspection. Cutting-edge technology is developed according to the requirements and standards of the international market. The extensive international experience of Dr. Schenk translates to in-depth knowledge and understanding of our customers' standards, workflows and requirements - all over the world.

As a result, Dr. Schenk's unique and unmatched approach to complex inspection requirements has secured the company a top reputation among customers everywhere.

Dr. Schenk, established in 1985, is an innovative German high-tech company.

Dr. Schenk develops, produces and markets optical surface inspection and measurement solutions for automated quality assurance and production process monitoring.

The systems 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 Dr. Schenk's 220 employees continue to set new standards for the inspection of surfaces. Over 10,000 m<sup>2</sup> of modern, clean-room-capable production and testing facilities are available to research, development and production to apply cutting-edge optics and electronics to customer applications.

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



# GLOBAL TECHNOLOGY FOR LOCAL NEEDS





### 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

- Plastics
- Textile Materials
- Nonwovens
- Paper
- Metal
- Converted Web Material
- and many more

### 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

- Display Glass
- Float Glass
- Coated / Laminated Glass
- Solar Glass
- Specialty Glass
- and many more

### 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. Inspected materials and processes include:

- Incoming Glass
- Layer Deposition
- P1, P2, P3 Structuring
- Chemical Steps
- Edge Deletion
- Lamination
- Finished Modules



## SOLUTIONS AS AN OUTLOOK

### Optical Media Division

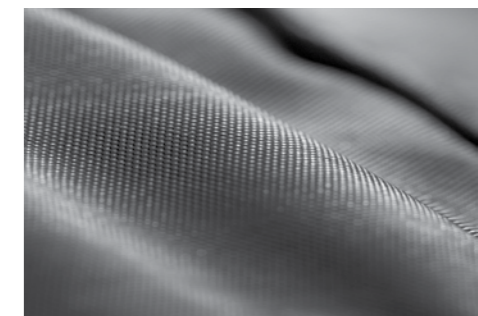
Dr. Schenk is a worldwide leader in the design, production, installation and service of quality control and process monitoring scanners for testing and inspection of optical discs.

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.

### Customized Solutions: From Lab to Fab

Dr. Schenk is always at the forefront of research and development, developing customized solutions for individual customers from the first design specification until the introduction into the commercial market.

Our unique organizational structure and technological advantage lets us develop tailor-made, high-tech solutions for each inspection task, and then seamlessly transfer the development result into an economic, scalable mass production, propagating the solution to each location of the customer worldwide. Short implementation cycles and local support guarantee a smooth and professional introduction of your inspection solution during all stages.





## Unique Advantage with MIDA and SLT

Multiple Image Defect Analysis (MIDA) uses one scan line, one camera line and multiple illumination sources to provide extensive information for all kinds of local defects from different perspectives. Thanks to the ultra-bright multiplexed illumination units of Dr. Schenk's Sirius Light Technology (SLT) more light reaches the material surface and combined with multiple optical channels per camera line all occurring defects can be reliably detected and classified, which is essential for quality control and process optimization. But it does not stop there: MIDA and SLT offer more information per defect and work at higher production speeds than any other inspection technology is capable of.



Simultaneously, other channels monitor the overall properties of the material, generating a homogeneity map of layer properties (i.e. thickness, surface structure, transmittance) for the full width of the material. This presents a unique advantage in inspection, making it fast, comprehensive and of unparalleled quality.



## TECHNOLOGY LEADER



Dr. Schenk has in-depth experience in the development of vision components, cameras, illuminations, software, as well as automatic handling systems that are developed in-house with our own subject matter knowledge.

Being on the cutting edge of technology and simultaneously offering the broadest range of implementation components possible enables Dr. Schenk to provide unique one-stop-shopping solutions to our customers. From standard inspection systems that offer good value for money to highly customized special applications that no-one else can develop for you - Dr. Schenk provides each customer with their perfect inspection solution.

Dr. Schenk inspection solutions secure your investment far into the future - even when materials or quality requirements change. Thanks to the versatile and user-friendly software, adaptation to new materials and inspection tasks can be done quickly and efficiently, without losing existing settings.



## Proactive Research & Development

At Dr. Schenk, innovation continues to meet the industries' needs. Engineers of the research and development team work on inspection solutions for manufacturing processes that pave the way towards the future. Our R&D team succeeds in always staying one step ahead of the competition, offering our customers a decisive edge over their competitors. At the same time, the practicability of our solutions and the easy integration into our customers' production lines remains the focus of all R&D activities.

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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# ONE STEP AHEAD OF THE COMPETITION

