

Dr. Schenk inspection solutions for composite materials

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The Inspection Expert



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1. Smart inspection for perfect composites

Ensure the quality of your composite material from first fiber to final fabric with Dr. Schenk inspection solutions. Complete overview of your material quality helps you make faster, more confident production decisions.

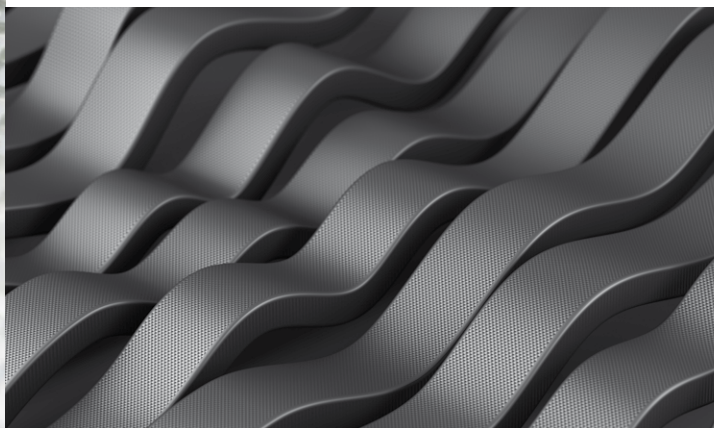
One system, countless applications

EasyInspect inspects 100% of your material surface, giving you instant feedback on quality and consistency.



One system covers all your production needs:

- From precursor fibers and rovings to finished fabrics
- Any material: natural fibers, PAN, rayon, carbon, glass, and more
- Uni- or multidirectional chopped fibers
- Prepreg or dry materials



2. Committed to your satisfaction: Dr. Schenk lifecycle support options

Purchasing an inspection solution is only the beginning. Our customizable lifecycle support options ensure the right amount of support whenever and wherever necessary.



- Hassle-free Inspection Process Support
- Next-gen hardware upgrades
- Powerful software enhancements



- Unmatched 10-year camera warranty
- Cutting-edge annual software upgrades



- Engaging group trainings
- Personalized one-on-one trainings
- Expert face-to-face & hands-on trainings

With **over 50 service engineers** in **more than 10 locations** around the world, we offer comprehensive on-site and remote service and support.

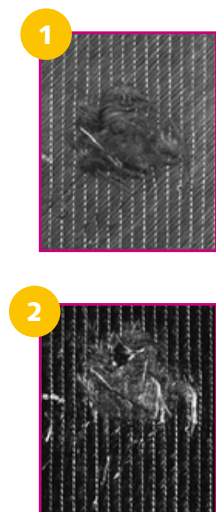
3. MIDA – Multiple Image Defect Analysis for every defect

Richer image information and unmatched reliability for composite inspection: By capturing multiple views and using multi-angle illumination, MIDA uncovers even the smallest defects in complex or structured fabrics.

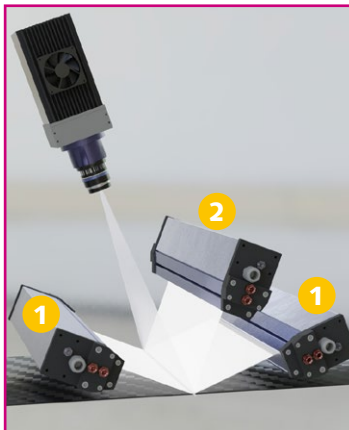
What Dr. Schenk MIDA gives you:

- Detect tiny defects in structured or irregular weaves
- Up to 6× more image information through multi-angle illumination
- Multiple views of the same defect, designed for high-speed production

The result: faster decisions and fewer surprises through more reliable, more precise defect identification across every composite material.



Dr. Schenk MIDA:
same defect, multiple views.



1 = Reflection Darkfield Channel
2 = Reflection Brightfield Channels

4. AIMI: Advanced AI for high-precision composite inspection

AIMI (Artificial Intelligence Material Inspection) elevates composite inspection to a new level. Even highly structured weaving, irregular densities, or high-speed roving lines can be inspected with confidence.

AIMI distinguishes reliably between acceptable variations and true defects, helping you keep output stable while reducing false alarms and unnecessary stops.

If needed, AIMI can be combined with pre- or post-classification rules, blending AI with operator expertise for optimal inspection results.

Dr. Schenk AIMI can detect and classify:

Weaving defects

- Thread misalignment, missing stitches
- Distortions, irregular thread density
- Waviness, wrinkles, folds, delaminations
- Contamination, fuzz balls, inclusions

Resin defects

- Uneven or incomplete resin distribution, dry spots
- Pores, bubbles, resin inclusions, bridging
- Uneven curing or overcuring
- Cracks, scratches

Roving / precursor defects

- Broken or protruding fibers
- Contamination, thickness or density variations

5. Dr. Schenk AI Workbench: smarter inspection built on your data

The Dr. Schenk AI Workbench gives you tools to annotate, manage, and train AI inspection models even with only a few samples.

You can build strong defect libraries, refine classifications, and scale reliable inspection across production with minimal effort.

- AI-assisted defect library creation:
fast, structured onboarding
- Automated feature and image analysis:
understand defects in detail
- Continuous classification improvement:
through models that evolve as production runs

