

## 1. Intelligent software tools facilitate material change

Set up your Dr. Schenk system once and detect defects for different materials, different lighting and different channel settings.

Save time and money with intelligent Dr. Schenk software tools:

- Automatic light intensity adaptation
- Automatic adaptation of inspection sensitivity
- Automatic adaptation to material width

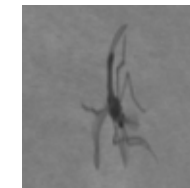


**Your advantage from Dr. Schenk detection:**  
easy product change

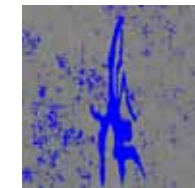
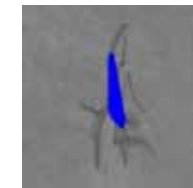
## 2. MIDA X - more than just multiple detection thresholds

Most conventional inspection systems have multiple thresholds for detection, but even that does not always suffice for good defect segmentation.

For Dr. Schenk, multiple thresholds are only the start of an intelligent segmentation process that improves, analyzes and completely traces the full defect contour and area.



*Challenge: how to classify this defect as an insect?*



*Multiple thresholds yield multiple results, but not always the one you need*



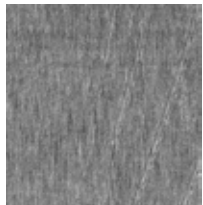
*Solution: use MIDA X to transcend thresholds; fully analyze the defect contour and characteristics*

**Your advantage from Dr. Schenk segmentation:**  
identify defects more precisely

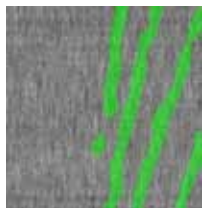
Your benefits from Dr. Schenk's artificial intelligence (AI) solutions

### 3. Let MIDA X do the work for you

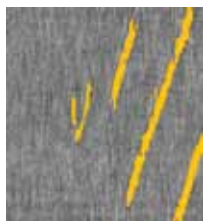
Dr. Schenk's MIDA X will find the correct defect contour and characteristics with just a little information from you – no scripting or programming knowledge necessary!



*This material has scratches that are clearly visible to the human eye, but not to a conventional inspection system*



*Use your vision to mark up the desired defect parts, then submit the image to the data processing center...*



*...and get back the solution for the best segmented result.*

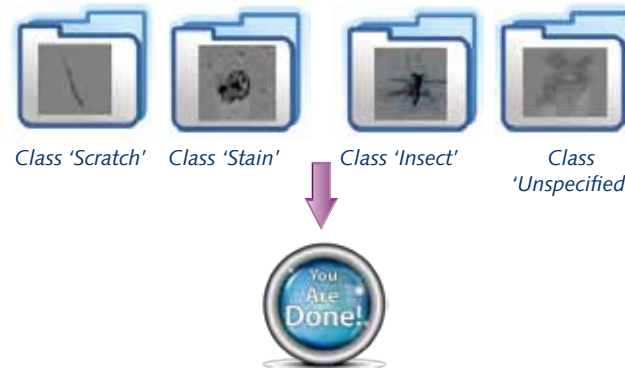
**Your advantage from Dr. Schenk's MIDA X: best basis for perfect classification**

### 4. Dr. Schenk AI takes care of your classification improvement

After automatic MIDA X segmentation, all you have to do for powerful and accurate classification of your defects is to sort them into the desired classes. With intelligent segmentation, neural networks and self-improving algorithms this is an easy task.

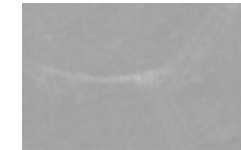
- AI-assisted creation of defect library
- AI analysis of defect features and gray images
- AI-based classification improvement
- Machine-learning system that improves with each new defect input and each classification pass

*1 Step: Collect defects in target classes*

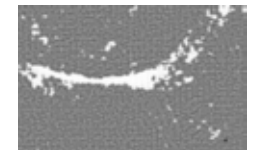


**Your advantage from Dr. Schenk classification: no further programming or manual scripting necessary**

### Dr. Schenk AI solutions - best in class for your inspection needs!



*How a conventional inspection system sees this low-contrast defect...*



*...and what Dr. Schenk AI can make visible*

#### Your advantages from a Dr. Schenk inspection system:

- Acquire inspection results faster and with less effort
- Find defects other systems cannot find – at zero false-hit rate
- Get the most out of your inspection system!

Would you like to know more? Scan the QR code to contact us:

