GENUINE LEATHER

Your benefits from Dr. Schenk's leather inspection solutions

Dr. Schenk GmbH Industriemesstechnik

Headquarters

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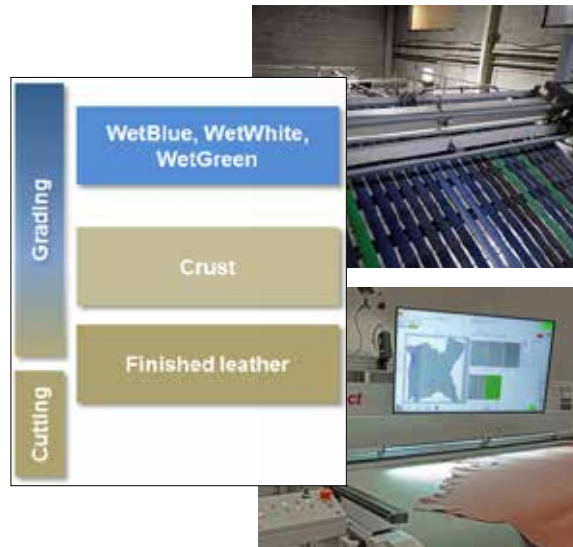GERMANY

www.drschenk.com/contact.html

The Inspection Expert

1. Fully automated inspection system for all process steps

Dr. Schenk offers a complete automatic inspection systems covering the whole processing range from WetBlue over WetWhite, WetGreen, and Crust to finished leather.

Your benefits from the Dr. Schenk automatic All-in-One inspection are:

- Improved inspection accuracy and consistency compared to manual inspection
- Improved throughput compared to manual inspection (300 hides per hour for WetWhite/WetBlue inspection; 80 hides per hour for finished leather inspection)
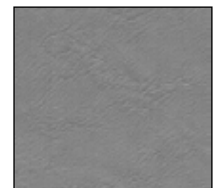- Time savings through one system

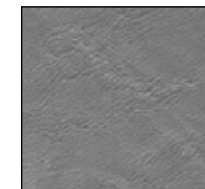## 2. MIDA - Multiple Image Defect Analysis for every defect

Dr. Schenk's unique Multiple Image Defect Analysis (MIDA) detects and classifies all types of leather defects in multiple optical channels and different illuminations, creating the optimal setup for complete detection.
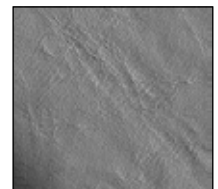

Loose Grain in Channel 1

Loose Grain in Channel 2
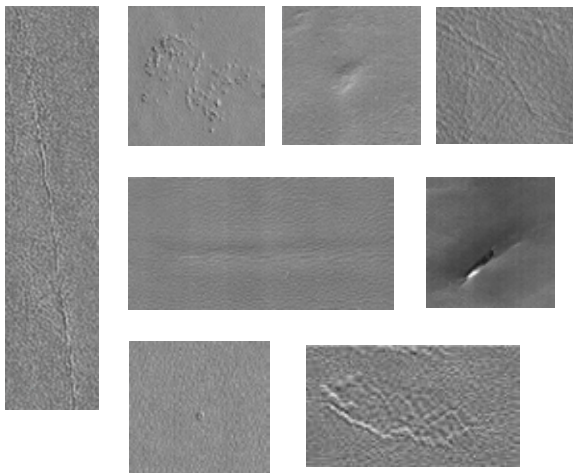
Loose Grain in Channel 3

Loose Grain in Channel 4

3. Pre-trained AI for detection and classification

With the Dr. Schenk inspection system, a pre-trained AI model is available in the software to detect and classify all typically encountered defect types on leather right from the start. The customer only needs to refine and limit this model, and assign severities to the resulting defect classes. The following defect types are pre-trained:

- Holes
- Open Defects
- Butcher Cuts
- Dirt Inclusions
- Insect Bites
- Looseness
- Neck Wrinkles
- Mast Folds
- Open Scars
- Rough Areas
- Scars
- Veins
- Warts

4. Unique Multi-Step Classification

Dr. Schenk alone lets you combine the benefits of an highly advanced AI and human expert knowledge to create a perfect classification system tailormade for your inspection needs.
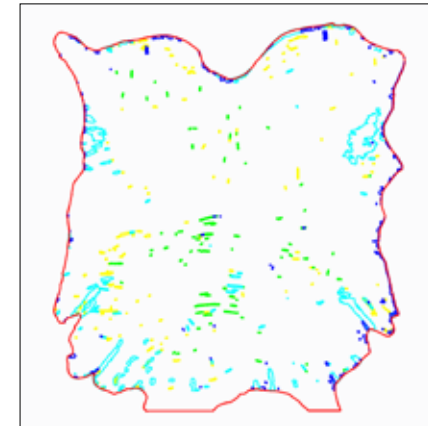

- **AI for detection of defects and quality zones**
- **Human expert knowledge for modifications**
- **Expert knowledge improves AI training model**

Your benefits from Multi-Step Classification are:

- Availing yourself to the advantages of the experience of Dr. Schenk AI
- Using your own expertise for modifications to improve the AI training model
- Flexible model allows addition of human expert rules before and after AI classification
- Combining the best of AI and human capabilities for the best inspection results

5. Optimal preparation for cutting

The Dr. Schenk inspection system offers a unique export of the inspected skins as a DXF file. Each quality zone is clearly visible and marked by a different color.

After inspection the quality zones of the inspected leather are clearly delineated by different colors

Your benefits from the Dr. Schenk cutting preparation are:

- Full information about each quality zone
- Seamless integration with cutting systems through DXF export
- Optimum yield from each leather skin