

## Master all quality tasks with a single system

### Defects<sup>1</sup>

- Particles (metal, active material, and others)
- Pinholes, thin spots, drops
- Delaminations, peels
- Streaks, cracks, scratches
- Wrinkles, folds, oxidation
- Edge burr, gel/oil stains

- Reliable detection of all defects (particles  $\geq 10 \mu\text{m}$ )
- Inspection width up to 12 m
- Inspection speed up to 500 m/min

### Measurement<sup>2</sup>

- Intermittent/stripey coating
- Top/bottom alignment
- Sheets, tabs, coating
- Dimension and position
- ...and many more

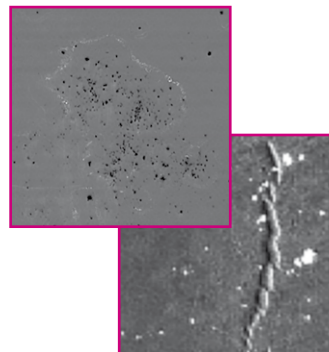
- Highest resolution
- Unparalleled precision
- Highest speed to detect even smallest edge defects
- Integrated calibration for qualification and traceability

### Material Properties<sup>3</sup>

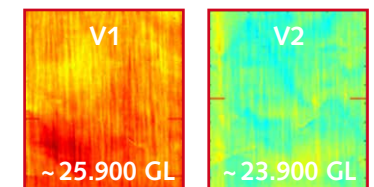
- Roughness/homogeneity
- Coating thickness (e.g. BSF)
- Porosity
- Streakiness
- ... and many more

- Monitoring of entire material surface at full speed
- Highest sensitivity (100 nm range for BSF coating)
- Thanks to highly dynamic, proprietary cameras and illuminations

Your benefits from  
Dr. Schenk's unique optical  
battery inspection solutions

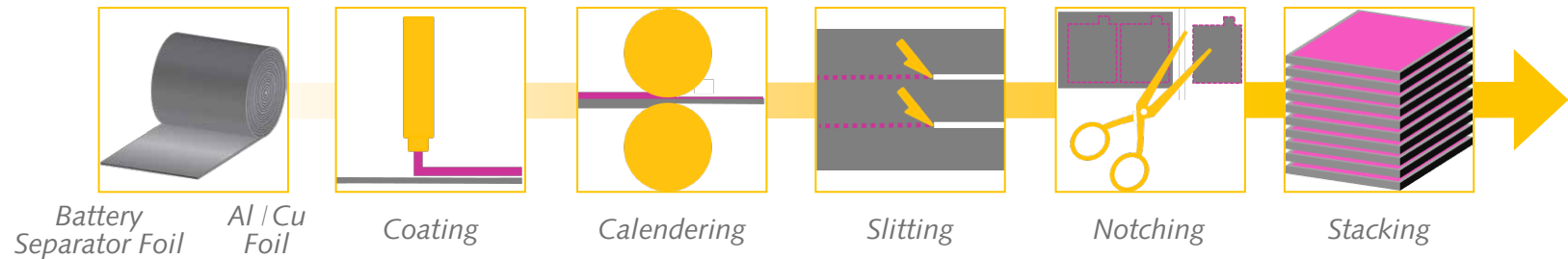


+3.2  $\mu\text{m}$  coating +4.1  $\mu\text{m}$  coating



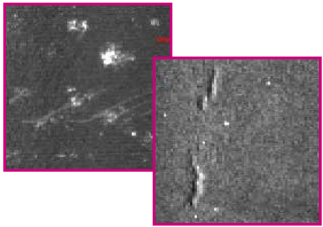
# EasyInspect

Control your entire production workflow with a single system.



## MIDA: see more with multiple views

- Reliable detection of smallest defects and deviations with MIDA (Multiple Image Defect Analysis)
- Detailed defect information via multiple views



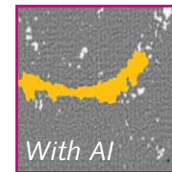
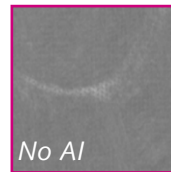
*Dr. Schenk MIDA:  
different views show  
different defect types*

## Dr. Schenk provides you:

- Let our expertise work for you: thousands of battery inspection systems installed worldwide
- Reliable 100% quality with minimal effort
- Hardware and software, application & service support and consulting from one source

## AI Processing for high-quality results

- Multi-step AI processing: the best AI for the specific job
- Real-time for up to 500 m/min: with AI pre-processing inside the camera
- Better detection and classification with minimal effort



## Your advantages:

- Local and competent support world-wide
- Easy integration: small footprint required
- Reduce CapEx: start small - expand later
- Low OpEx: less manpower, fewer experts required
- Future-proof: grows with your demands

## Data management and connectivity

- Open, central database to store all monitoring data
- Flexible interfacing with MES, SCADA, ERP systems
- Comprehensive statistics analysis

78.535	78.538	78.553
78.595	78.576	78.394
78.347	78.406	78.361
72.146	71.933	72.092
73.128	73.119	73.360
72.774	72.933	-0.499

