

## Inspection System

Testing machine for highly sensitive materials



### FOR MEMBRANES

## Fully Automated Material Analysis And Surface Inspection

Our fully automated inspection and testing system sets new standards for precise **material testing and surface inspection**.

When it comes to inspecting highly sensitive web materials such as **Catalyst Coated Membrane (CCM)** for PEM fuel cells or electrolyzers, the lowest web tension is required to avoid damaging the surface structure during inspection.

The smooth-running and control components used enable "**linerless**" **testing** of sensitive materials and thus offer an optimum basis for different test methods. This allows quality standards to be developed and new testing equipment to be tested **in parallel with production**.

### SPECIFICATIONS

## Technical Data

- Web tensions of < 2.50 Newton
- Space requirement of 4.00 x 2.50 m (LxW)
- **Inspection:**  
The system is equipped with a line scan camera as standard. The design is tailored precisely to the customer's needs.
- **Marking systems:**  
Whether you need laser markers or inkjet printers – we integrate the technology that best suits your materials.

### ADVANTAGES

## Gentle On Materials And Efficient.

- Test parameters can be determined and optimized upstream of production. The overall development process is thus significantly accelerated.
- Liner/backing can be dispensed with due to the low web tension → Material savings!
- Smooth running for minimum web tension: minimal breakaway torque, low friction
- All controllers and components are designed for lowest web tension. Acceleration ramps are optimized for the low trains.
- The parallelism of the rollers is measured optically
- Precise winding is ensured even with the lowest web tension via web center control of the unwinding and rewinding components.
- Space for further customization: Placeholders offer the possibility of integrating further optional test methods, such as X-RAY sensor technology and ultrasonic layer thickness measurement.
- Connection to an MES, PPS etc. is possible

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