

DSS Dimension Stability System

Modular Measuring System for the Investigation of the Dimension Stability of Paper/Board/Foils in Contact with Temperature or Liquids



- Prediction of the converting properties of paper/board/foils concerning the dimension stability at **thermal load up to 230°C**

- Measurement of the dynamics of the change in dimension of paper by means of **one-sided contact** with water based liquids under adjustable tension

- Main applications:

- Coating base paper, **decor paper**, newsprint paper, offset printing paper, label paper, ink jet paper, kraft liner etc in contact with:

- water ■ fountain solution ■ ink jet ink ■ melamine resin ■ gravure ink

- Runnability at professional laser printing machines and copy machines

- Register

- four color laser printing ■ offset printing ■ rotogravure printing

- Fluting tendency with LWC papers

- Staple problems at professional offset-, copy and laser printing paper

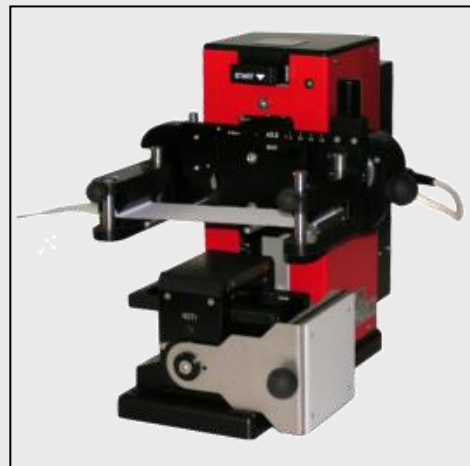
- Special applications: **plastic foils**, pre-impregnates, wall papers, filter paper

Features

- Modular measuring unit with modules to measure the wet stretch/heat shrinkage
- Temperature adjustment via PC software
- Includes measurement of paper moistness, humidity and ambient temperature
- Change in dimension in MD and CD can be measured separately
- Measuring results:
 - Dimension-Time-Diagram
 - Change in dimension at a selectable time point
- Measuring range:
 - Stretching up to approx. 27%
 - Shrinkage up to approx. 5%
- High accuracy
- Measuring temperature: from ambient temperature up to max. 230°C (heat shrinkage)
- Testing liquids: low viscous, aqueous liquids (wet stretch)
- Efficient and user-friendly software
- Export of the measuring data into MS EXCEL by a single mouse click
- Easy to handle
- Compact and robust construction
- Non interference prone



DSS with wet stretch module



DSS with heat shrinkage module

Technical Data

- Range of temperature: from ambient temperature up to 230°C (heat shrinkage)
- Sample dimension: 60mmx200mm (MD/CD)
- Accuracy: +/- 0,05% abs. +/- 5%rel.
- Resolution: 0,013%
- Operating voltage: 115V 60Hz / 220V 50Hz
- Dimensions: HxWxD 295 x 280 x 320 mm
- Weight: approx. 15 kg