

# **Dimension Stability System DSS**

# Module **HSA** Heat Shrinkage Analyzer

Measuring Instrument for the Investigation of the Dimension Stability of Paper/Board/OPP films under Thermal load



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

## **Main Applications**

- Runnability of laser printing and copy paper for professional applications
- Register accuracy:
  | four color laser printing / offset printing
  | rotogravure printing, decor printing
- Waviness at web offset
- Staple problems at professional copier, laser printer and offset printing machines

# Special applications

Pre-impregnates OPP films Wall papers Special filter paper

# **Measuring results**

Shrinkage-time-diagram Shrinkage at a time point t

## **Main User**

- Producer of paper, board, foils
- Producer of printer, copy machines, printing machines



#### **Features**

- Change in dimension in MD and CD can be measured separately
- Measuring results:

**Dimension-Time-Diagram** Change in dimension at a selectable time point

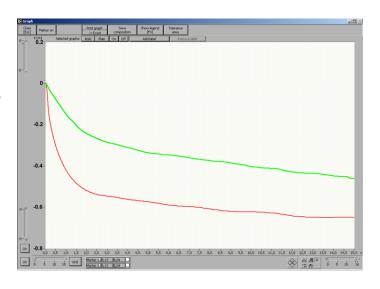
- Measuring range: Stretching up to approx. 27% Shrinkage up to approx. 5%
- High accuracy
- Temperature adjustment via PC software
- Measuring temperature: from ambient temperature up to max. 230°C
- Includes measurement of paper moistness, humidity and ambient temperature
- Efficient and user-friendly software
- Export of the measuring data into MS EXCEL by a single mouse click
- Easy to handle
- Compact and robust construction
- Low vulnerability to failures

#### Example:

Shrinkage of two different LWC papers with 50% relative moistness at a temperature of 130°C

#### Goal:

Characterization of the tendency of waviness with offset printing



#### **Technical data**

Range of temperature: from ambient temperature up to 230°C

Sample dimension: 60mmx200mm (MD/CD)

Resolution: 0.013%

Accuracy: +/- 0.05% abs. +/- 5%rel.

Power supply: 24V DC / 230V, 50Hz / 115V, 60Hz,

100VAC - 240VAC, 50-60Hz

Dimensions: 295 x 280 x 320 mm (HxWxD)

Weight: approx. 15 kg