

## **Dimension Stability System DSS**

## Module **VSD** 02

**Wet Stretch Dynamics Analyzer** 

Measuring Instrument to determine the **Dynamics of Wet Expansion of Paper** by means of one-sided Liquid Contact



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

### **Main Applications**

- Decor paper in contact with:
  - | Water | Melamine Resin | Gravure ink
- Coating base paper, newsprint paper, offset printing paper, label paper, ink jet-paper etc. in contact with:
  - | Water | Fountain solution | Ink jet-ink
- Linerboard in contact with:
  - | Water (flatness problem)

### **Main User**

- Paper/board producer
   Chemical Supplier
- Converter of Paper
- Replacing classical wet expansion methods, which are using two-sided liquid contact.

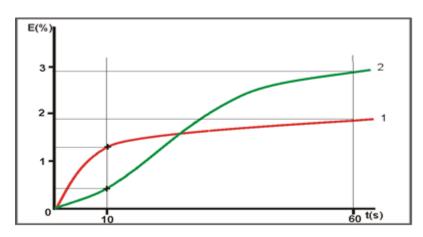


### **Features**

### Benefits:

- One-sided liquid contact
- Integrated measurement of paper moistness, humidity and ambient temperature
- Fast contacting of the paper and liquid, important especially for high absorbent paper
- Real trial conditions by adjustable tension
- Objective measuring method, free of subjective errors
- High reproducibility of the results: ±0.05% of result
- Accuracy better than  $\pm$  0.1% abs.  $\pm$  5% of the analytical value in the area of 0 to 3% stretching
- Resolution approx. ± 0.013%
- Easy handling
- Measuring range:
  - Wet expansion to a maximum of 25%, measuring duration unlimited
  - Recording the expansion from the moment of liquid contact, displaying the results from approx. 100 ms after initial contact
- Measuring results:
  - Expansion-time diagram
  - Expansion value at a free selectable time point
- Software:
  - Convenient user interface for measurements
  - Easy to handle in quality assurance

# Example: Wet stretch dynamics of two label papers – contrary behavior at 10s and 60s!



### **Technical data**

Sample dimension: min. 210mm x (60±0.5)mm Dimension: 300 x 280 x 320mm (H x W x D)

Weight: 8.5 kg

Power supply: 230V, 50Hz / 115V, 60H

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