Schnettler Technologies
For a better solution

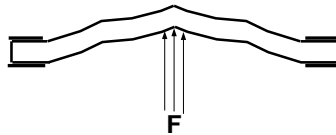**M**essen **M**anfred **M**arkus **R**egeln **R**eusch **P**rüfen **P**leinen **GmbH**

MRP - Messen Regeln Prüfen Automatisierungstechnik

Description

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MRP-ST LAB BUR 2015 - Burst pressure measurement for MRP-Schnettler automatic test line

Laboratory burst pressure measurement

At MRP - Schnettler the bursting pressure is performed with the Bursting Pressure Tester called MRP-ST LAB BUR 2015 device.

To determine the bursting pressure or bursting strength of a paper, the so-called bursting pressure test is carried out. This test works according to the Mullen principle. The paper is clamped in a circle on a membrane, which bulges under the effect of pressure and causes the material sample to burst. The hydraulic pressure acting on the membrane during bursting is also the bursting pressure of the sample to be measured.

Indicator / Characteristics

The burst pressure measurement in the automatic test line is characterized by the following features:

- destructive measurement
- good repeatability
- Reference samples are included
- the bursting index can be calculated if a basis weight index is available

Physical principle

With the burst pressure gauge different materials can be tested. The sample is clamped pneumatically. The diaphragm is lifted by a hydraulic system, which is monitored by a flow meter and optical encoder. The best pressure tester complies with international standards for measuring burst pressure on paper, foils, cardboard, corrugated board.

Recorded measured values and statistics

- Burst measured value (mean value)
- standard deviation, depending on your requirements as 1S, 2S, 3S available.
- Coefficient of Variation
- Maximum and minimum values of the measurement series

Available standards

- ISO 2758, 2759
- Tappi T403/T807
- ASTM D774

Measurement accuracy

Type	MRP-ST LAB BUR 2015
Measuring range	20 - 2000 kPa for paper 20 - 10000 kPa for cardboard
accuracy - 2 sigma at 1 sec	1,0% of the display value
Operating temperature	10°C-50°C

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