



ModularLine

BENDTSEN

Article No. S62400

For:



✓ PAPER



✓ BOARD



✓ TISSUE



## MOST IMPORTANT BENEFITS

- ✓ 1, 2, or 3 heads are available in one device (roughness top, roughness bottom, permeability)
- ✓ Standard measuring range: 25 – 5000 ml/min (other measuring ranges also available, e.g. 1 – 5000 ml/min)
- ✓ Simultaneous measurement with all 3 measuring heads
- ✓ Fully automated measuring cycle, sample is not destroyed

Produced by

 **FRANK-PTI**  
QUALITY TESTING INSTRUMENTS

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## PRODUCT DESCRIPTION

The Bentsen measurement process is specified both for surface roughness and air permeability. It works according to the air leak method with preset pressure differentials. The ModularLine Bentsen testing device is available in various different variant models. According to configuration, the roughness of the upper surface and/or the lower surface as well as the air permeability can be measured. A device can therefore contain up to three measurement units, with each equipped with a closed measurement and regulation system, and the latest generation of sensors. The results can be displayed in ml/min or  $\mu\text{m}/\text{Pa}^*\text{s}$ , as required. Calculation according to Gurley, Schopper and Sheffield is also possible.

## TEST DESCRIPTION

After inserting the sample and the start of the test sequence, the roughness measurement head is automatically placed on the sample and measurement is started. Automated positioning of the head almost rules out inaccuracies of measurement due to outside influence. Depending on the selected measurement pressure, a pressure difference of 0.74, 1.47 or 2.20 kPa is created and the throughflow between measurement blade and sample is measured. The air permeability is determined using the same technique, where the airflow through the sample is measured. The same selectable pressure regulation bands apply here.

## TECHNICAL DATA

### DEVICE/INSTRUMENT

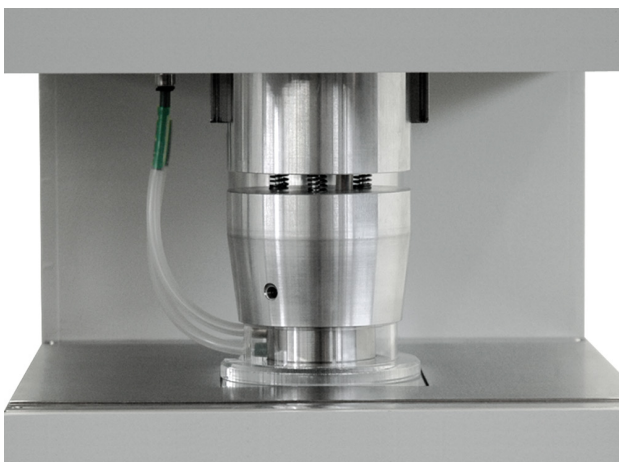
- Easy operation via the integrated touch screen
- Flow: 10 – 5,000 ml/min
- Measuring time adjustable: 1 – 40 sec
- Pressure difference adjustable:  
0.74 kPa  
1.47 kPa  
2.20 kPa

### INSTALLATION REQUIREMENTS

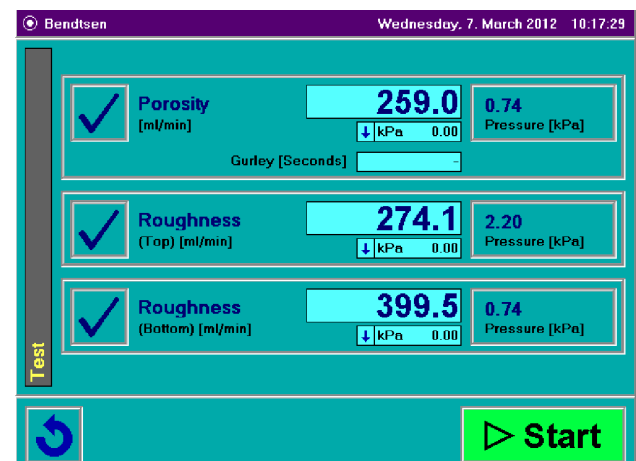
Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	4 – 6 bar

### APPLICABLE STANDARDS

- DIN 53120-1
- ISO 5636-3, 8791-2



Measuring area



User interface