



Bekk Smoothness Tester

Model 58-05-00

The Automatic Bekk Smoothness Tester is a microprocessor controlled instrument for the determination of smoothness of paper and board according to the Bekk Method.

This air leak smoothness test is useful for very smooth surfaces, for example, coated label papers, coated free sheet, or other very smooth papers. Test results generate with the Bekk tester have shown excellent correlation with print smoothness evaluations using offset ink. Likewise, Bekk results have shown good agreement with subjective evaluations of low angle illuminated surface photomicrographs. Surface integrity is particularly important for printing papers. The surface fibers must be sufficiently bonded to those beneath the surface and the coating bond to the fiber matrix must be sound.

Innovation

An innovative new feature is the Estimated Test Result. It was implemented to save the operator time when setting up a new test series and choosing the pressure interval and volume setting but also to save the operator time when doing a quick single test to see what the value of the paper approximate will be. The ETR value is calculated after the test has been started (50.66 kPa) based on the rate of rise of pressure. After 10 sec-onds the ETR value is displayed. During the test the ETR value is constantly re-calculated and updated until the ETR value at 48.00 kPa is the same as the final test result.

Standards

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Features:

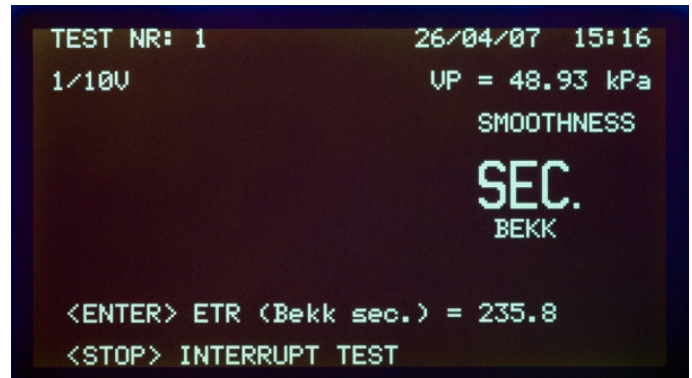
- Open throat design enables large samples to be conveniently tested for rapid set-up and test
- Menu-driven software
- Air volumes 1/1 and 1/10th volume air receiver speeds up testing for smoother paper
- Pressure intervals 50.66-48.00 and 50.66-29.33 kPa
- Estimated Test Result: 10 seconds after start of test an ETR value is displayed, this represents the expected result at test completion
- Calibration adjustment using Paper tabs
- System check to check if the vacuum system is airtight
- Lists statistics on screen
- Multi-language standard
- RS-232 C serial data output
- Porosity test option
- Applications in paper, board
- Meets ISO 5627, TAPPI T-479, DIN 53107

Standards:

ISO 5267	Paper and board - Determination of smoothness (Bekk method)
TAPPI T-479	Smoothness of paper (Bekk method)
DIN 53107	Paper and board roughness/ smoothness

Technical Specification:

Model single head model:	58-05-00
Estimated test result:	Approx. 10 seconds
Menu selectable:	Air volumes, Pressure interval
Data collection:	RS-232 C serial data output
Display:	Large black and white liquid crystal graphic high-contrast
Calibrations:	Using paper tabs
Pressure interval:	50.66-48.00 and 50.66-29.33 kPa
Range:	0-99,000
Weight:	51 kg (113 lb)
Dimensions:	390 mm x 530 mm x 415 mm (15.5 in x 21 in x 16.5 in)
Electrical:	110VAC, 60 Hz, 150VA or 220VAC, 50Hz, 150 VA
Air:	600 kPa (instrument quality)
Alternative language options:	French, German, Spanish or Finnish



Display screen



Bekk head closeup

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

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